



TAMU Project

**Energy Consumption Data Quality Assurance/Quality
Control Assessment Report for the
Month of February 2017**

Prepared for

**Utility & Energy Services
Division of Administration
Texas A&M University**

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Acknowledgements

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Executive Summary

This report analyzes the energy use data collected from 584 meters in 202 buildings and complexes (approximately 20,468,000 GSF) on the campus of Texas A&M University in College Station, Texas. The report consists of five sections: 1) The summary of the monthly energy consumption per meter ID, 2) The quality control and assurance analysis of incorrect or incomplete energy use patterns, 3) Energy consumption time series plots, 4) Energy Balance plots, and 5) Energy Balance plots with filled-in consumption data. Section one contains the summary of monthly energy consumption for each of the TAMU buildings. Section two includes the reviews on each of those building energy use patterns that presented problems in the metered data. Section three and four are a collection of the plots generated for the energy use analysis, as reference to indicate and validate the quality of the metered energy data. The Section five includes the energy balance plots with filled-in energy data.

Table of Contents

	Page
Acknowledgements	i
Executive Summary.....	ii
Table of Contents	iii
List of Tables.....	v
List of Figures.....	v
I. Summary of Monthly Consumption.....	1
II. Data Analysis: Energy Use Estimation and Observation	11
II-1 Meters with Missing Energy Consumption Data.....	12
II-2 Meters with Estimated Consumption for Problematic Data	13
CE TTI Office & Lab Building (TAMU Bldg #325-385).....	14
Underwood Residence Hall (TAMU Bldg #394).....	16
Henderson Hall (TAMU Bldg #425).....	20
Aston Residence Hall (TAMU Bldg #447).....	24
Oceanography & Meteorology Building (TAMU Bldg #443).....	27
Teague Research Center (TAMU Bldg #445).....	30
DPC Annex (TAMU Bldg #517)	36
Rudder Tower (TAMU Bldg #446).....	41
Biological Sciences Building – East (TAMU Bldg #467)	44
Heaton Hall (TAMU Bldg #481)	47
Halbouty Geosciences Building (TAMU Bldg #490)	50
Engineering Innovation Center (TAMU Bldg #499)	53
Veterinary Teaching Hospital and Veterinary Medicine Administration (TAMU Bldg #508-1026).....	56
Heep Laboratory Building (TAMU Bldg #511).....	59
All Faiths Chapel (TAMU Bldg #512).....	62
McNew Laboratory (TAMU Bldg #740)	65
Entomology Research Lab (TAMU Bldg #815)	68
Vivarium III (TAMU Bldg #1020)	71
Southern Crop Improvement Greenhouse (TAMU Bldg #1512).....	76
TX School of Rural Public Health (TAMU Bldg # 1518, 1519, 1520)	79
Gilchrist TTI Building (TAMU Bldg #1600).....	80

II-3 Meters with Significant Issues in Energy Consumption Data	83
Wells Residence Hall (TAMU Bldg #290)	84
Rudder Residence Hall (TAMU Bldg #291).....	85
Appelt Residence Hall (TAMU Bldg #293).....	86
Bright Building (TAMU Bldg #353).....	87
Langford Architecture Center Building A (TAMU BLDG # 398)	88
Legett Residence Hall (TAMU BLDG # 419)	89
Luedecke Building (Cyclotron) (TAMU BLDG # 434).....	90
Mosher Residence Hall (TAMU BLDG # 433)	91
Oceanography & Meteorology Building (TAMU Bldg #443).....	92
Teague Research Center (TAMU BLDG # 445).....	93
DPC Annex (TAMU BLDG # 517)	94
Rudder Theatre Complex (TAMU Bldg #446)	96
Psychology Building (TAMU Bldg #463)	97
Fermier Hall (TAMU Bldg #482)	98
Chemistry Building (TAMU Bldg #484)	99
Civil Engineering Building (TAMU Bldg #492)	100
Utilities & Energy Services Central Office (TAMU Bldg #496)	101
Engineering Innovation Center (TAMU Bldg # 499)	102
Nagle Hall (TAMU Bldg #506)	103
All Faiths Chapel (TAMU Bldg #512).....	104
Blocker Building (TAMU Bldg #524)	105
McNew Laboratory (TAMU Bldg #740)	107
Entomology Research Lab (TAMU Bldg #815)	108
TVMC-Small Animal Building (TAMU Bldg# 880).....	109
Veterinary Medicine Administration (TAMU Bldg# 1026).....	110
Biological Control Facility (TAMU Bldg# 1146).....	111
Physical Plant Administration & Shops (TAMU Bldg# 1156).....	112
Veterinary Research Building (TAMU Bldg# 1197)	113
Reynolds Medical Sciences Building (TAMU Bldg# 1504).....	114
Nuclear Magnetic Resonance Facility (TAMU Bldg# 1525).....	116
Agriculture Public Building (TAMU Bldg# 1537)	117
Cox-McFerrin Center for Aggie Basketball (TAMU Bldg# 1558).....	119
West Campus Parking Garage (TAMU Bldg# 1559).....	120
Student Recreation Center (TAMU Bldg# 1560).....	121

International Ocean Discovery Building (TAMU Bldg# 1601)	122
Offshore Technology Research Center (TAMU Bldg# 1604)	123
TTI Headquarters (TAMU Bldg# 1609)	124
National Center for Therapeutics Manufacturing (TAMU Bldg# 1910)	125
III. Time Series Plots for February 2017 Consumption	127
IV. Energy Balance Plots for February 2017 Consumption	226
V. Energy Balance Plots with Filled-in data for February 2017 Consumption.....	326
VI. Appendix	341

List of Tables

	Page
Table I-1 February 2017 Monthly Consumption for TAMU Buildings.....	2
Table II-1 Meters with missing data during February 2017	12
Table II-2 Meters with problematic data during February 2017	13
Table II-3 Meters with significant issues in the consumption data during February 2017	83

List of Figures

	Page
Figure III-1 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Emerging Technologies Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	128
Figure III-2 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Liberal Arts and Arts & Humanities Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	128
Figure III-3 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wells Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	129
Figure III-4 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	129
Figure III-5 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Eppright Residence Hall during the Month of February 2017	

and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	130
Figure III-6 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Appelt Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	130
Figure III-7 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lechner Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	131
Figure III-8 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mitchell Inst. for Fundamental Phys & Astronomy during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	131
Figure III-9 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for CE TTI Office & Lab Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	132
Figure III-10 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bright Aerospace Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	132
Figure III-11 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Davis Football Player Development Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	133
Figure III-12 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building B during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	133
Figure III-13 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building B&C during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	134
Figure III-14 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bright Football Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	134
Figure III-15 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kyle Field during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	135
Figure III-16 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Chemistry Building Addition during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	135

Figure III-17 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Koldus Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	136
Figure III-18 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Sanders Corps of Cadets Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	136
Figure III-19 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Jack E. Brown Chemical Engineering Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	137
Figure III-20 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Richardson Petroleum Engineering Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	137
Figure III-21 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for James J. Cain'51 and Mechanical Engineering Office Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	138
Figure III-22 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Underwood Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	138
Figure III-23 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Langford Architecture Center Building A during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	139
Figure III-24 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Spence Hall Dorm 1 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	139
Figure III-25 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Spence Hall, Briggs Hall, and Ash II LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	140
Figure III-26 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kiest Hall Dorm 2 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	140
Figure III-27 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kiest Hall, Fountain Hall, and Plank LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	141
Figure III-28 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Briggs Hall Dorm 3 during the Month of February 2017 and	

the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	141
Figure III-29 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Fountain Hall Dorm 4 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	142
Figure III-30 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Gainer Hall Dorm 5 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	142
Figure III-31 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Gainer Hall, Leonard Hall and Ash LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	143
Figure III-32 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lacy Hall - Dorm 6 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	143
Figure III-33 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Stati	144
Figure III-34 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Leonard Hall - Dorm 7 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	144
Figure III-35 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrell Hall - Dorm 8 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	145
Figure III-36 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Moses Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	145
Figure III-37 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Davis-Gary Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	146
Figure III-38 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Legett Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	146
Figure III-39 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Milner Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	147

Figure III-40 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Walton Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	147
Figure III-41 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hotard Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	148
Figure III-42 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Henderson Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	148
Figure III-43 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for FHK Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	149
Figure III-44 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Schumacher Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	149
Figure III-45 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building C during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	150
Figure III-46 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mosher Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	150
Figure III-47 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mosher Commons Krueger Dunn Aston during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	151
Figure III-48 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Luedecke Building (Cyclotron) during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	151
Figure III-49 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrington Education Center Office Tower during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	152
Figure III-50 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed-McDonald Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	152
Figure III-51 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed-McDonald and Engineering Innovation Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	153

Figure III-52 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrington Education Center Classroom Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	153
Figure III-53 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Commons Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	154
Figure III-54 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Krueger Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	154
Figure III-55 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Dunn Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	155
Figure III-56 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Oceanography & Meteorology Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	155
Figure III-57 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Peterson Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	156
Figure III-58 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Teague Research Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	156
Figure III-59 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Teague Research Center and DPC Annex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	157
Figure III-60 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Tower and Theatre Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	157
Figure III-61 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Theatre Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	158
Figure III-62 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Tower during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	158
Figure III-63 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Aston Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	159

Figure III-64 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Adams Band Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	159
Figure III-65 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Sciences Building - West during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	160
Figure III-66 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Duncan Dining Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	160
Figure III-67 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for MSC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	161
Figure III-68 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Military Sciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	161
Figure III-69 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TAES Annex Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	162
Figure III-70 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Coke Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	162
Figure III-71 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Academic Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	163
Figure III-72 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Psychology Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	163
Figure III-73 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for State Chemist Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	164
Figure III-74 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Butler Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	164
Figure III-75 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Sciences Building - East during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	165

Figure III-76 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Evans Library during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	165
Figure III-77 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Central Campus Parking Garage during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	166
Figure III-78 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Glasscock History Bldg during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	166
Figure III-79 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Pavilion during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	167
Figure III-80 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Animal Industries during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	167
Figure III-81 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Williams Administration Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	168
Figure III-82 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for YMCA Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	168
Figure III-83 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Francis Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	169
Figure III-84 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Anthropology Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	169
Figure III-85 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Scoates Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	170
Figure III-86 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bolton Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	170
Figure III-87 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heaton Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	171
Figure III-88 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Fermier Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	171

Figure III-89 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Thompson Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	172
Figure III-90 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Chemistry Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	172
Figure III-91 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Halbouty Geosciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	173
Figure III-92 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Civil Engineering Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	173
Figure III-93 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Sbis Dining Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	174
Figure III-94 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities & Energy Services Central Office during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	174
Figure III-95 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Engineering Innovation Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	175
Figure III-96 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Concrete Materials Laboratory during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	175
Figure III-97 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Nagle Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	176
Figure III-98 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Medical Science Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	176
Figure III-99 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Teaching Hospital and Med Adm during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	177
Figure III-100 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heep Laboratory Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	177

Figure III-101 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for All Faiths Chapel during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	178
Figure III-102 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Doherty Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	178
Figure III-103 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Munnerlyn Astronomy & Space Sciences Engineering during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	179
Figure III-104 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Computing Services Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	179
Figure III-105 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for DPC Annex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	180
Figure III-106 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Beutel Health Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	180
Figure III-107 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heldenfels Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	181
Figure III-108 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Blocker building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	181
Figure III-109 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Clements Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	182
Figure III-110 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Haas Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	182
Figure III-111 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for McFadden Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	183
Figure III-112 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Neeley Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	183
Figure III-113 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hobby Residence Hall during the Month of February 2017	

and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	184
Figure III-114 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wisenbaker Engineering Research Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	184
Figure III-115 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for McNew Laboratory during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	185
Figure III-116 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Soil Testing Labs during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	185
Figure III-117 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Entomology Research Lab during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	186
Figure III-118 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TVMC-Small Animal Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	186
Figure III-119 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Laboratory Animal Care Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	187
Figure III-120 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Vivarium III during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	187
Figure III-121 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Medicine Administration during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	188
Figure III-122 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas Vet Med Diagnostic Lab during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	188
Figure III-123 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Forest Science Laboratory Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	189
Figure III-124 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Small Animal Hospital during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	189

Figure III-125 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities Energy Office Annex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	190
Figure III-126 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Control Facility during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	190
Figure III-127 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Physical Plant Administration & Shops during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	191
Figure III-128 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Anatomic Pathology during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	191
Figure III-129 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Large Animal Hospital during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	192
Figure III-130 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Research Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	192
Figure III-131 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Buzbee Leadership Learning Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	193
Figure III-132 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for H. Grady Ash, Jr. '58 Leadership Learning Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	193
Figure III-133 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Plank LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	194
Figure III-134 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Ash II LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	194
Figure III-135 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hullabaloo Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	195
Figure III-136 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - Laundry at the Gardens during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	195

Figure III-137 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens J during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	196
Figure III-138 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens K during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	196
Figure III-139 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens L during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	197
Figure III-140 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens F during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	197
Figure III-141 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens G during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	198
Figure III-142 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens H during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	198
Figure III-143 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens M during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	199
Figure III-144 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens N during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	199
Figure III-145 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens P during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	200
Figure III-146 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens Q during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	200
Figure III-147 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities & Energy Services Business Office during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	201

Figure III-148 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kleberg Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	201
Figure III-149 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heep Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	202
Figure III-150 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Cater-Mattil Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	202
Figure III-151 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reynolds Medical Sciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	203
Figure III-152 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rosenthal Meat Science & Technology Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	203
Figure III-153 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Horticulture-Forest Science Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	204
Figure III-154 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biochemistry-Biophysics Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	204
Figure III-155 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Price Hobgood Ag. Engineering Research Lab during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	205
Figure III-156 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Medical Sciences Library during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	205
Figure III-157 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wehner Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	206
Figure III-158 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for West Campus Library Facility during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	206
Figure III-159 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Southern Crop Improvement Greenhouse during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	207

Figure III-160 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Borlaug Center for Southern Crop Improvement during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	207
Figure III-161 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TX School of Rural Public Health during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	208
Figure III-162 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Nuclear Magnetic Resonance Facility during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	208
Figure III-163 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Interdisciplinary Life Sciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	209
Figure III-164 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Agriculture and Life Sciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	209
Figure III-165 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for AgriLife Services Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	210
Figure III-166 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Agriculture Public Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	210
Figure III-167 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Agriculture Program Visitors Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	211
Figure III-168 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Physical Education Activity Program Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	211
Figure III-169 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Human Clinical Research Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	212
Figure III-170 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Cain Garage during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	212
Figure III-171 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Olsen Field at Bluebell Park during the Month of February	

2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	213
Figure III-172 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed Arena and Cox-McFerrin Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	213
Figure III-173 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Cox-McFerrin Center for Aggie Basketball during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	214
Figure III-174 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for West Campus Parking Garage during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	214
Figure III-175 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Student Recreation Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	215
Figure III-176 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 1 and White Creek Apts Activity Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	215
Figure III-177 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 2 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	216
Figure III-178 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 3 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	216
Figure III-179 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Gilchrist TTI Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	217
Figure III-180 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for International Ocean Discovery Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	217
Figure III-181 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Offshore Technology Research Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	218
Figure III-182 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for George Bush Presidential Library & Museum during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	218

Figure III-183 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Allen Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	219
Figure III-184 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Annenberg Presidential Conference Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	219
Figure III-185 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TTI Headquarters during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	220
Figure III-186 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Engineering Research Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	220
Figure III-187 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for General Services Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	221
Figure III-188 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for New TVMDL during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	221
Figure III-189 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Office of the State Chemist Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	222
Figure III-190 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Vet Med Research Bldg Addition during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	222
Figure III-191 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Medicine Building 1, 2, and 3 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	223
Figure III-192 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas Institute for Genomic Medicine during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	223
Figure III-193 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas A&M Institute for Preclinical Studies A during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	224
Figure III-194 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for National Center for Therapeutics Manufacturing during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX	224

Figure III-195 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Multi-Species Research Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	225
Figure III-196 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for NCTM Manufacturing Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX.....	225
Figure IV-1 Emerging Technologies Building TAMU BLDG # 270 Energy Balance Plot during February 2017.....	227
Figure IV-2 Liberal Arts and Arts & Humanities Building TAMU BLDG # 275 Energy Balance Plot during February 2017	227
Figure IV-3 Wells Residence Hall TAMU BLDG # 290 Energy Balance Plot during February 2017.....	228
Figure IV-4 Rudder Residence Hall TAMU BLDG # 291 Energy Balance Plot during February 2017	228
Figure IV-5 Eppright Residence Hall TAMU BLDG # 292 Energy Balance Plot during February 2017	229
Figure IV-6 Appelt Residence Hall TAMU BLDG # 293 Energy Balance Plot during February 2017	229
Figure IV-7 Lechner Residence Hall TAMU BLDG # 294 Energy Balance Plot during February 2017.....	230
Figure IV-8 Mitchell Inst. for Fundamental Phys & Astronomy TAMU BLDG # 296 Energy Balance Plot during February 2017.....	230
Figure IV-9 CE TTI Office & Lab Building TAMU BLDG # 325 Energy Balance Plot during February 2017.....	231
Figure IV-10 Bright Aerospace Building TAMU BLDG # 353 Energy Balance Plot during February 2017.....	231
Figure IV-11 Davis Football Player Development Center TAMU BLDG # 358 Energy Balance Plot during February 2017	232
Figure IV-12 Architecture Building B&C TAMU BLDG # 359 Energy Balance Plot during February 2017.....	232
Figure IV-13 Architecture Building B TAMU BLDG # 359 Energy Balance Plot during February 2017	233
Figure IV-14 Architecture Building C TAMU BLDG # 432 Energy Balance Plot during February 2017	233
Figure IV-15 Bright Football Complex TAMU BLDG # 361 Energy Balance Plot during February 2017	234
Figure IV-16 Kyle Field TAMU BLDG # 367 Energy Balance Plot during February 2017	234
Figure IV-17 Chemistry Building Addition TAMU BLDG # 376 Energy Balance Plot during February 2017.....	235

Figure IV-18 Koldus Building TAMU BLDG # 383 Energy Balance Plot during February 2017	235
Figure IV-19 Sanders Corps of Cadets Center TAMU BLDG # 384 Energy Balance Plot during February 2017.....	236
Figure IV-20 Jack E. Brown Chemical Engineering Building TAMU BLDG # 386 Energy Balance Plot during February 2017.....	236
Figure IV-21 Richardson Petroleum Engineering Building TAMU BLDG # 387 Energy Balance Plot during February 2017	237
Figure IV-22 James J. Cain '51 and Mechanical Engineering Office Building TAMU BLDG # 391 Energy Balance Plot during February 2017	237
Figure IV-23 Underwood Residence Hall TAMU BLDG # 394 Energy Balance Plot during February 2017.....	238
Figure IV-24 Langford Architecture Center Building A TAMU BLDG # 398 Energy Balance Plot during February 2017	238
Figure IV-25 Spence Hall, Briggs Hall, and Ash II LLC TAMU BLDG # 400, 402, 1405 Energy Balance Plot during February 2017.....	239
Figure IV-26 Spence Hall Dorm 1 TAMU BLDG # 400 Energy Balance Plot during February 2017	239
Figure IV-27 Briggs Hall Dorm 3 TAMU BLDG # 402 Energy Balance Plot during February 2017	240
Figure IV-28 Ash II LLC TAMU BLDG # 1405 Energy Balance Plot during February 2017	240
Figure IV-29 Kiest Hall, Fountain Hall, and Plank LLC TAMU BLDG # 401, 403, 1404 Energy Balance Plot during February 2017.....	241
Figure IV-30 Kiest Hall Dorm 2 TAMU BLDG # 401 Energy Balance Plot during February 2017	241
Figure IV-31 Fountain Hall Dorm 4 TAMU BLDG # 403 Energy Balance Plot during February 2017	242
Figure IV-32 Plank LLC TAMU BLDG # 1404 Energy Balance Plot during February 2017	242
Figure IV-33 Gainer Hall, Leonard Hall and Ash LLC TAMU BLDG # 404, 406, 1403 Energy Balance Plot during February 2017.....	243
Figure IV-34 Gainer Hall Dorm 5 TAMU BLDG # 404 Energy Balance Plot during February 2017	243
Figure IV-35 Leonard Hall - Dorm 7 TAMU BLDG # 406 Energy Balance Plot during February 2017	244
Figure IV-36 H. Grady Ash, Jr. '58 Leadership Learning Center TAMU BLDG # 1403 Energy Balance Plot during February 2017.....	244
Figure IV-37 Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center TAMU BLDG # 405, 407, 1402 Energy Balance Plot during February 2017	245

Figure IV-38 Lacy Hall - Dorm 6 TAMU BLDG # 405 Energy Balance Plot during February 2017	245
Figure IV-39 Harrell Hall - Dorm 8 TAMU BLDG # 407 Energy Balance Plot during February 2017	246
Figure IV-40 Buzbee Leadership Learning Center TAMU BLDG # 1402 Energy Balance Plot during February 2017	246
Figure IV-41 Moses Residence Hall TAMU BLDG # 412 Energy Balance Plot during February 2017	247
Figure IV-42 Davis-Gary Residence Hall TAMU BLDG # 415 Energy Balance Plot during February 2017.....	247
Figure IV-43 Legett Residence Hall TAMU BLDG # 419 Energy Balance Plot during February 2017	248
Figure IV-44 Milner Hall TAMU BLDG # 420 Energy Balance Plot during February 2017	248
Figure IV-45 Walton Residence Hall TAMU BLDG # 422 Energy Balance Plot during February 2017	249
Figure IV-46 Hotard Hall TAMU BLDG # 424 Energy Balance Plot during February 2017	249
Figure IV-47 Henderson Hall TAMU BLDG # 425 Energy Balance Plot during February 2017	250
Figure IV-48 FHK Complex TAMU BLDG # 426 Energy Balance Plot during February 2017	250
Figure IV-49 Schumacher Residence Hall TAMU BLDG # 430 Energy Balance Plot during February 2017.....	251
Figure IV-50 Mosher Commons Krueger Dunn Aston TAMU BLDG # 433, 440, 441, 442, 447 Energy Balance Plot during February 2017.....	251
Figure IV-51 Mosher Residence Hall TAMU BLDG # 433 Energy Balance Plot during February 2017	252
Figure IV-52 Commons Hall TAMU BLDG # 440 Energy Balance Plot during February 2017	252
Figure IV-53 Krueger Residence Hall TAMU BLDG # 441 Energy Balance Plot during February 2017.....	253
Figure IV-54 Dunn Residence Hall TAMU BLDG # 442 Energy Balance Plot during February 2017	253
Figure IV-55 Aston Residence Hall TAMU BLDG # 447 Energy Balance Plot during February 2017	254
Figure IV-56 Luedecke Building (Cyclotron) TAMU BLDG # 434 Energy Balance Plot during February 2017.....	254
Figure IV-57 Harrington Education Center Office Tower TAMU BLDG # 435 Energy Balance Plot during February 2017	255

Figure IV-58 Reed-McDonald and Engineering Innovation Center TAMU BLDG # 436 and 499 Energy Balance Plot during February 2017	255
Figure IV-59 Reed-McDonald Building TAMU BLDG # 436 Energy Balance Plot during February 2017.....	256
Figure IV-60 Engineering Innovation Center TAMU BLDG # 499 Energy Balance Plot during February 2017.....	256
Figure IV-61 Harrington Education Center Classroom Building TAMU BLDG # 438 Energy Balance Plot during February 2017.....	257
Figure IV-62 Oceanography & Meteorology Building TAMU BLDG # 443 Energy Balance Plot during February 2017	257
Figure IV-63 Peterson Building TAMU BLDG # 444 Energy Balance Plot during February 2017	258
Figure IV-64 Teague Research Center and DPC Annex TAMU BLDG # 445 and 517 Energy Balance Plot during February 2017.....	258
Figure IV-65 Teague Research Center TAMU BLDG # 445 Energy Balance Plot during February 2017	259
Figure IV-66 DPC Annex TAMU BLDG # 517 Energy Balance Plot during February 2017	259
Figure IV-67 Rudder Tower and Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2017	260
Figure IV-68 Rudder Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2017.....	260
Figure IV-69 Rudder Tower TAMU BLDG # 446 Energy Balance Plot during February 2017	261
Figure IV-70 Adams Band Hall TAMU BLDG # 448 Energy Balance Plot during February 2017	261
Figure IV-71 Biological Sciences Building - West TAMU BLDG # 449 Energy Balance Plot during February 2017	262
Figure IV-72 Duncan Dining Hall TAMU BLDG # 450 Energy Balance Plot during February 2017	262
Figure IV-73 MSC TAMU BLDG # 454 Energy Balance Plot during February 2017	263
Figure IV-74 Military Sciences Building TAMU BLDG # 456 Energy Balance Plot during February 2017.....	263
Figure IV-75 TAES Annex Building TAMU BLDG # 457 Energy Balance Plot during February 2017	264
Figure IV-76 Coke Building TAMU BLDG # 461 Energy Balance Plot during February 2017	264
Figure IV-77 Academic Building TAMU BLDG # 462 Energy Balance Plot during February 2017	265
Figure IV-78 Psychology Building TAMU BLDG # 463 Energy Balance Plot during February 2017.....	265

Figure IV-79 State Chemist Building TAMU BLDG # 464 Energy Balance Plot during February 2017	266
Figure IV-80 Butler Hall TAMU BLDG # 465 Energy Balance Plot during February 2017	266
Figure IV-81 Biological Sciences Building - East TAMU BLDG # 467 Energy Balance Plot during February 2017	267
Figure IV-82 Evans Library TAMU BLDG # 468 Energy Balance Plot during February 2017	267
Figure IV-83 Central Campus Parking Garage TAMU BLDG # 469 Energy Balance Plot during February 2017.....	268
Figure IV-84 Glasscock History Bldg TAMU BLDG # 470 Energy Balance Plot during February 2017	268
Figure IV-85 Pavilion TAMU BLDG # 471 Energy Balance Plot during February 2017.....	269
Figure IV-86 Animal Industries TAMU BLDG # 472 Energy Balance Plot during February 2017	269
Figure IV-87 Williams Administration Building TAMU BLDG # 473 Energy Balance Plot during February 2017	270
Figure IV-88 YMCA Building TAMU BLDG # 474 Energy Balance Plot during February 2017	270
Figure IV-89 Francis Hall TAMU BLDG # 476 Energy Balance Plot during February 2017	271
Figure IV-90 Anthropology Building TAMU BLDG # 477 Energy Balance Plot during February 2017.....	271
Figure IV-91 Scoates Hall TAMU BLDG # 478 Energy Balance Plot during February 2017	272
Figure IV-92 Bolton Hall TAMU BLDG # 480 Energy Balance Plot during February 2017	272
Figure IV-93 Heaton Hall TAMU BLDG # 481 Energy Balance Plot during February 2017	273
Figure IV-94 Fermier Hall TAMU BLDG # 482 Energy Balance Plot during February 2017	273
Figure IV-95 Thompson Hall TAMU BLDG # 483 Energy Balance Plot during February 2017	274
Figure IV-96 Chemistry Building TAMU BLDG # 484 Energy Balance Plot during February 2017	274
Figure IV-97 Halbouty Geosciences Building TAMU BLDG # 490 Energy Balance Plot during February 2017.....	275
Figure IV-98 Civil Engineering Building TAMU BLDG # 492 Energy Balance Plot during February 2017.....	275
Figure IV-99 Sbisa Dining Hall TAMU BLDG # 495 Energy Balance Plot during February 2017	276

Figure IV-100 Utilities & Energy Services Central Office TAMU BLDG # 496 Energy Balance Plot during February 2017	276
Figure IV-101 Concrete Materials Laboratory TAMU BLDG # 501 Energy Balance Plot during February 2017.....	277
Figure IV-102 Nagle Hall TAMU BLDG # 506 Energy Balance Plot during February 2017	277
Figure IV-103 Veterinary Medical Science Building TAMU BLDG # 507 Energy Balance Plot during February 2017	278
Figure IV-104 Veterinary Teaching Hospital and Med Adm TAMU BLDG # 508 and 1026 Energy Balance Plot during February 2017.....	278
Figure IV-105 Veterinary Teaching Hospital TAMU BLDG # 508 Energy Balance Plot during February 2017.....	279
Figure IV-106 Veterinary Medicine Administration TAMU BLDG # 1026 Energy Balance Plot during February 2017	279
Figure IV-107 Heep Laboratory Building TAMU BLDG # 511 Energy Balance Plot during February 2017.....	280
Figure IV-108 All Faiths Chapel TAMU BLDG # 512 Energy Balance Plot during February 2017	280
Figure IV-109 Doherty Building TAMU BLDG # 513 Energy Balance Plot during February 2017	281
Figure IV-110 Munnerlyn Astronomy & Space Sciences Engineering TAMU BLDG # 514 Energy Balance Plot during February 2017.....	281
Figure IV-111 Computing Services Center TAMU BLDG # 516 Energy Balance Plot during February 2017.....	282
Figure IV-112 Beutel Health Center TAMU BLDG # 520 Energy Balance Plot during February 2017	282
Figure IV-113 Heldenfels Hall TAMU BLDG # 521 Energy Balance Plot during February 2017	283
Figure IV-114 Blocker building TAMU BLDG # 524 Energy Balance Plot during February 2017	283
Figure IV-115 Clements Residence Hall TAMU BLDG # 548 Energy Balance Plot during February 2017.....	284
Figure IV-116 Haas Residence Hall TAMU BLDG # 549 Energy Balance Plot during February 2017	284
Figure IV-117 McFadden Residence Hall TAMU BLDG # 550 Energy Balance Plot during February 2017.....	285
Figure IV-118 Neeley Residence Hall TAMU BLDG # 652 Energy Balance Plot during February 2017	285
Figure IV-119 Hobby Residence Hall TAMU BLDG # 653 Energy Balance Plot during February 2017	286

Figure IV-120 Wisenbaker Engineering Research Center TAMU BLDG # 682 Energy Balance Plot during February 2017	286
Figure IV-121 McNew Laboratory TAMU BLDG # 740 Energy Balance Plot during February 2017	287
Figure IV-122 Soil Testing Labs TAMU BLDG # 806 Energy Balance Plot during February 2017	287
Figure IV-123 Entomology Research Lab TAMU BLDG # 815 Energy Balance Plot during February 2017	288
Figure IV-124 TVMC-Small Animal Building TAMU BLDG # 880 Energy Balance Plot during February 2017	288
Figure IV-125 Laboratory Animal Care Building TAMU BLDG # 972 Energy Balance Plot during February 2017	289
Figure IV-126 Vivarium III TAMU BLDG # 1020 Energy Balance Plot during February 2017	289
Figure IV-127 Texas Vet Med Diagnostic Lab TAMU BLDG # 1041 Energy Balance Plot during February 2017	290
Figure IV-128 Forest Science Laboratory Building TAMU BLDG # 1042 Energy Balance Plot during February 2017	290
Figure IV-129 Veterinary Small Animal Hospital TAMU BLDG # 1085 Energy Balance Plot during February 2017	291
Figure IV-130 Utilities Energy Office Annex TAMU BLDG # 1089 Energy Balance Plot during February 2017	291
Figure IV-131 Biological Control Facility TAMU BLDG # 1146 Energy Balance Plot during February 2017	292
Figure IV-132 Physical Plant Administration & Shops TAMU BLDG # 1156 Energy Balance Plot during February 2017	292
Figure IV-133 Veterinary Anatomic Pathology TAMU BLDG # 1184 Energy Balance Plot during February 2017	293
Figure IV-134 Veterinary Large Animal Hospital TAMU BLDG # 1194 Energy Balance Plot during February 2017	293
Figure IV-135 Veterinary Research Building TAMU BLDG # 1197 Energy Balance Plot during February 2017	294
Figure IV-136 Hullabaloo Residence Hall TAMU BLDG # 1416 Energy Balance Plot during February 2017	294
Figure IV-137 University Apartments - Laundry at the Gardens TAMU BLDG # 1450 Energy Balance Plot during February 2017	295
Figure IV-138 University Apartments - The Gardens J TAMU BLDG # 1451 Energy Balance Plot during February 2017	295
Figure IV-139 University Apartments - The Gardens K TAMU BLDG # 1452 Energy Balance Plot during February 2017	296

Figure IV-140 University Apartments - The Gardens L TAMU BLDG # 1453 Energy Balance Plot during February 2017	296
Figure IV-141 University Apartments - The Gardens F TAMU BLDG # 1454 Energy Balance Plot during February 2017	297
Figure IV-142 University Apartments - The Gardens G TAMU BLDG # 1455 Energy Balance Plot during February 2017	297
Figure IV-143 University Apartments - The Gardens H TAMU BLDG # 1456 Energy Balance Plot during February 2017	298
Figure IV-144 University Apartments - The Gardens M TAMU BLDG # 1457 Energy Balance Plot during February 2017	298
Figure IV-145 University Apartments - The Gardens N TAMU BLDG # 1458 Energy Balance Plot during February 2017	299
Figure IV-146 University Apartments - The Gardens P TAMU BLDG # 1459 Energy Balance Plot during February 2017	299
Figure IV-147 University Apartments - The Gardens Q TAMU BLDG # 1460 Energy Balance Plot during February 2017	300
Figure IV-148 Utilities & Energy Services Business Office TAMU BLDG # 1497 Energy Balance Plot during February 2017	300
Figure IV-149 Kleberg Center TAMU BLDG # 1501 Energy Balance Plot during February 2017	301
Figure IV-150 Heep Center TAMU BLDG # 1502 Energy Balance Plot during February 2017	301
Figure IV-151 Cater-Mattil Hall TAMU BLDG # 1503 Energy Balance Plot during February 2017	302
Figure IV-152 Reynolds Medical Sciences Building TAMU BLDG # 1504 Energy Balance Plot during February 2017	302
Figure IV-153 Rosenthal Meat Science & Technology Center TAMU BLDG # 1505 Energy Balance Plot during February 2017	303
Figure IV-154 Horticulture-Forest Science Building TAMU BLDG # 1506 Energy Balance Plot during February 2017	303
Figure IV-155 Biochemistry-Biophysics Building TAMU BLDG # 1507 Energy Balance Plot during February 2017	304
Figure IV-156 Price Hobgood Ag. Engineering Research Lab TAMU BLDG # 1508 Energy Balance Plot during February 2017	304
Figure IV-157 Medical Sciences Library TAMU BLDG # 1509 Energy Balance Plot during February 2017	305
Figure IV-158 Wehner Building TAMU BLDG # 1510 Energy Balance Plot during February 2017	305
Figure IV-159 West Campus Library Facility TAMU BLDG # 1511 Energy Balance Plot during February 2017	306

Figure IV-160 Southern Crop Improvement Greenhouse TAMU BLDG # 1512 Energy Balance Plot during February 2017	306
Figure IV-161 Borlaug Center for Southern Crop Improvement TAMU BLDG # 1513 Energy Balance Plot during February 2017.....	307
Figure IV-162 TX School of Rural Public Health TAMU BLDG # 1518 Energy Balance Plot during February 2017	307
Figure IV-163 Nuclear Magnetic Resonance Facility TAMU BLDG # 1525 Energy Balance Plot during February 2017	308
Figure IV-164 Interdisciplinary Life Sciences Building TAMU BLDG # 1530 Energy Balance Plot during February 2017	308
Figure IV-165 Agriculture and Life Sciences Building TAMU BLDG # 1535 Energy Balance Plot during February 2017	309
Figure IV-166 AgriLife Services Building TAMU BLDG # 1536 Energy Balance Plot during February 2017.....	309
Figure IV-167 Agriculture Public Building TAMU BLDG # 1537 Energy Balance Plot during February 2017.....	310
Figure IV-168 Agriculture Program Visitors Center TAMU BLDG # 1538 Energy Balance Plot during February 2017	310
Figure IV-169 Physical Education Activity Program Building TAMU BLDG # 1540 Energy Balance Plot during February 2017.....	311
Figure IV-170 Human Clinical Research Building TAMU BLDG # 1542 Energy Balance Plot during February 2017	311
Figure IV-171 Cain Garage TAMU BLDG # 1544 Energy Balance Plot during February 2017	312
Figure IV-172 Olsen Field at Bluebell Park TAMU BLDG # 1550 Energy Balance Plot during February 2017.....	312
Figure IV-173 Reed Arena and Cox-McFerrin Center TAMU BLDG # 1554 and 1558 Energy Balance Plot during February 2017.....	313
Figure IV-174 Reed Arena TAMU BLDG # 1554 Energy Balance Plot during February 2017	313
Figure IV-175 Cox-McFerrin Center for Aggie Basketball TAMU BLDG # 1558 Energy Balance Plot during February 2017	314
Figure IV-176 West Campus Parking Garage TAMU BLDG # 1559 Energy Balance Plot during February 2017.....	314
Figure IV-177 Student Recreation Center TAMU BLDG # 1560 Energy Balance Plot during February 2017.....	315
Figure IV-178 White Creek Apartment 1 and White Creek Apts Activity Center TAMU BLDG # 1589 Energy Balance Plot during February 2017	315
Figure IV-179 White Creek Apartment 2 TAMU BLDG # 1591 Energy Balance Plot during February 2017.....	316

Figure IV-180 White Creek Apartment 3 TAMU BLDG # 1592 Energy Balance Plot during February 2017.....	316
Figure IV-181 Gilchrist TTI Building TAMU BLDG # 1600 Energy Balance Plot during February 2017.....	317
Figure IV-182 International Ocean Discovery Building TAMU BLDG # 1601 Energy Balance Plot during February 2017	317
Figure IV-183 Offshore Technology Research Center TAMU BLDG # 1604 Energy Balance Plot during February 2017	318
Figure IV-184 George Bush Presidential Library & Museum TAMU BLDG # 1606 Energy Balance Plot during February 2017.....	318
Figure IV-185 Allen Building TAMU BLDG # 1607 Energy Balance Plot during February 2017	319
Figure IV-186 Annenberg Presidential Conference Center TAMU BLDG # 1608 Energy Balance Plot during February 2017	319
Figure IV-187 TTI Headquarters TAMU BLDG # 1609 Energy Balance Plot during February 2017	320
Figure IV-188 Engineering Research Building TAMU BLDG # 1611 Energy Balance Plot during February 2017	320
Figure IV-189 General Services Complex TAMU BLDG # 1800 Energy Balance Plot during February 2017.....	321
Figure IV-190 New TVMDL TAMU BLDG # 1809 Energy Balance Plot during February 2017.....	321
Figure IV-191 Office of the State Chemist Building TAMU BLDG # 1810 Energy Balance Plot during February 2017	322
Figure IV-192 Vet Med Research Bldg Addition TAMU BLDG # 1811 Energy Balance Plot during February 2017	322
Figure IV-193 Veterinary Medicine Building 1, 2, and 3 TAMU BLDG # 1812 Energy Balance Plot during February 2017	323
Figure IV-194 Texas Institute for Genomic Medicine TAMU BLDG # 1900 Energy Balance Plot during February 2017	323
Figure IV-195 Texas A&M Institute for Preclinical Studies A TAMU BLDG # 1904 Energy Balance Plot during February 2017.....	324
Figure IV-196 National Center for Therapeutics Manufacturing TAMU BLDG # 1910 Energy Balance Plot during February 2017.....	324
Figure IV-197 Multi-Species Research Building TAMU BLDG # 1911 Energy Balance Plot during February 2017	325
Figure IV-198 NCTM Manufacturing Building TAMU BLDG # 10226 Energy Balance Plot during February 2017	325
Figure V-1 Kyle Field TAMU BLDG # 367 Energy Balance Plot during February 2017	327
Figure V-2 Luedecke Building (Cyclotron) TAMU BLDG # 434 Energy Balance Plot during February 2017.....	327

Figure V-3 Reed-McDonald and Engineering Innovation Center TAMU BLDG # 436 Energy Balance Plot during February 2017	328
Figure V-4 Peterson Building TAMU BLDG # 444 Energy Balance Plot during February 2017	328
Figure V-5 Rudder Tower and Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2017	329
Figure V-6 Rudder Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2017	329
Figure V-7 Rudder Tower TAMU BLDG # 446 Energy Balance Plot during February 2017	330
Figure V-8 Military Sciences Building TAMU BLDG # 456 Energy Balance Plot during February 2017	330
Figure V-9 Evans Library TAMU BLDG # 468 Energy Balance Plot during February 2017	331
Figure V-10 Central Campus Parking Garage TAMU BLDG # 469 Energy Balance Plot during February 2017.....	331
Figure V-11 Heaton Hall TAMU BLDG # 481 Energy Balance Plot during February 2017	332
Figure V-12 Chemistry Building TAMU BLDG # 484 Energy Balance Plot during February 2017	332
Figure V-13 Civil Engineering Building TAMU BLDG # 492 Energy Balance Plot during February 2017.....	333
Figure V-14 Engineering Innovation Center TAMU BLDG # 499 Energy Balance Plot during February 2017.....	333
Figure V-15 Veterinary Teaching Hospital and Med Adm TAMU BLDG # 508 Energy Balance Plot during February 2017	334
Figure V-16 Doherty Building TAMU BLDG # 513 Energy Balance Plot during February 2017	334
Figure V-17 McNew Laboratory TAMU BLDG # 740 Energy Balance Plot during February 2017	335
Figure V-18 Veterinary Medicine Administration TAMU BLDG # 1026 Energy Balance Plot during February 2017	335
Figure V-19 Texas Vet Med Diagnostic Lab TAMU BLDG # 1041 Energy Balance Plot during February 2017.....	336
Figure V-20 University Apartments - The Gardens F TAMU BLDG # 1454 Energy Balance Plot during February 2017	336
Figure V-21 University Apartments - The Gardens G TAMU BLDG # 1455 Energy Balance Plot during February 2017	337
Figure V-22 Agriculture Public Building TAMU BLDG # 1537 Energy Balance Plot during February 2017.....	337

Figure V-23 Human Clinical Research Building TAMU BLDG # 1542 Energy Balance Plot during February 2017	338
Figure V-24 Cain Garage TAMU BLDG # 1544 Energy Balance Plot during February 2017	338
Figure V-25 Reed Arena and Cox-McFerrin Center TAMU BLDG # 1554 Energy Balance Plot during February 2017	339
Figure V-26 New TVMDL TAMU BLDG # 1809 Energy Balance Plot during February 2017	339
Figure V-27 Veterinary Medicine Building 1, 2, and 3 TAMU BLDG # 1812 Energy Balance Plot during February 2017	340

I. Summary of Monthly Consumption

Table I-1 February 2017 Monthly Consumption for TAMU Buildings

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
0270	Emerging Technologies Building	305,316	007469	ELE	171,846	kWh	
0270	Emerging Technologies Building	305,316	007470	ELE	43,435	kWh	
0270	Emerging Technologies Building	305,316	007471	CHW	1,093,699	mBtu	
0270	Emerging Technologies Building	305,316	007475	HHW	335,041	mBtu	
0275	Liberal Arts and Arts & Humanities Building	107,500	007715	ELE	52,734	kWh	
0275	Liberal Arts and Arts & Humanities Building	107,500	007716	CHW	299,445	mBtu	
0275	Liberal Arts and Arts & Humanities Building	107,500	007717	HHW	91,434	mBtu	
0290	Wells Residence Hall	67,283	006870	ELE	38,523	kWh	
0290	Wells Residence Hall	67,283	001984	CHW	597,518	mBtu	(2)
0290	Wells Residence Hall	67,283	001988	HHW	423,494	mBtu	(2)
0291	Rudder Residence Hall	67,283	000351	ELE	42,914	kWh	
0291	Rudder Residence Hall	67,283	002132	CHW	698,424	mBtu	(2)
0291	Rudder Residence Hall	67,283	002136	HHW	466,848	mBtu	(2)
0292	Eppright Residence Hall	67,283	000002	ELE	43,383	kWh	
0292	Eppright Residence Hall	67,283	002262	CHW	277,096	mBtu	
0292	Eppright Residence Hall	67,283	002266	HHW	150,734	mBtu	
0293	Appelt Residence Hall	82,767	000003	ELE	54,732	kWh	
0293	Appelt Residence Hall	82,767	002062	CHW	609,907	mBtu	(2)
0293	Appelt Residence Hall	82,767	002066	HHW	295,592	mBtu	(2)
0294	Lechner Residence Hall	59,541	000004	ELE	45,535	kWh	
0294	Lechner Residence Hall	59,541	002285	CHW	556,594	mBtu	
0294	Lechner Residence Hall	59,541	002289	HHW	474,681	mBtu	
0296-0297	Mitchell Inst. For Fundamental Phys & Astronomy	189,617	006536	ELE	112,235	kWh	
0296-0297	Mitchell Inst. For Fundamental Phys & Astronomy	189,617	006537	ELE	107,006	kWh	
0296-0297	Mitchell Inst. For Fundamental Phys & Astronomy	189,617	006534	CHW	582,294	mBtu	
0296-0297	Mitchell Inst. For Fundamental Phys & Astronomy	189,617	006535	HHW	206,175	mBtu	
0353	Bright Aerospace Building	148,837	001569	ELE	157,323	kWh	
0353	Bright Aerospace Building	148,837	002746	CHW	909,894	mBtu	(2)
0353	Bright Aerospace Building	148,837	002757	HHW	81,728	mBtu	
0358	Davis Football Player Development Center	20,026	007699	ELE	28,415	kWh	
0358	Davis Football Player Development Center	20,026	007701	CHW	111,588	mBtu	
0358	Davis Football Player Development Center	20,026	007702	HHW	12,736	mBtu	
0361	Bright Football Complex	124,971	008461	ELE	182,200	kWh	
0361	Bright Football Complex	124,971	002547	CHW	633,562	mBtu	
0361	Bright Football Complex	124,971	002551	HHW	151,077	mBtu	
0367	Kyle Field	489,000	000336	ELE	130,455	kWh	
0367	Kyle Field	489,000	008861	ELE	87,472	kWh	
0367	Kyle Field	489,000	008862	ELE	76,446	kWh	*
0367	Kyle Field	489,000	008863	ELE	152,173	kWh	
0367	Kyle Field	489,000	008864	ELE	173,412	kWh	
0367	Kyle Field	489,000	008865	ELE	45,837	kWh	
0367	Kyle Field	489,000	008866	ELE	122,178	kWh	
0367	Kyle Field	489,000	008867	ELE	151,461	kWh	
0367	Kyle Field	489,000	008868	ELE	85,390	kWh	
0367	Kyle Field	489,000	008852	CHW	1,548,632	mBtu	
0367	Kyle Field	489,000	008026	CHW	1,829,301	mBtu	
0367	Kyle Field	489,000	008856	HHW	266,155	mBtu	
0367	Kyle Field	489,000	008027	HHW	1,300,482	mBtu	
0376	Chemistry Building Addition	115,797	006229	ELE	168,978	kWh	
0376	Chemistry Building Addition	115,797	006230	ELE	110,373	kWh	
0376	Chemistry Building Addition	115,797	007115	CHW	1,437,981	mBtu	
0376	Chemistry Building Addition	115,797	007119	HHW	1,057,947	mBtu	
0383	Koldus Building	110,272	001488	ELE	148,549	kWh	
0383	Koldus Building	110,272	002863	CHW	414,007	mBtu	
0383	Koldus Building	110,272	002874	HHW	170,058	mBtu	
0384	Sanders Corps of Cadets Center	19,363	001554	ELE	23,713	kWh	
0384	Sanders Corps of Cadets Center	19,363	002583	CHW	151,766	mBtu	
0384	Sanders Corps of Cadets Center	19,363	002587	HHW	98,127	mBtu	
0325-0385	CE TTI Office & Lab Building	157,844	009122	ELE	156,654	kWh	
0325-0385	CE TTI Office & Lab Building	157,844	009123	CHW	811,998	mBtu	(1)
0325-0385	CE TTI Office & Lab Building	157,844	009124	HHW	158,396	mBtu	
0386	Jack E. Brown Chemical Engineering Building	205,000	001428	ELE	139,832	kWh	
0386	Jack E. Brown Chemical Engineering Building	205,000	001429	ELE	313,271	kWh	
0386	Jack E. Brown Chemical Engineering Building	205,000	002250	CHW	2,006,652	mBtu	
0386	Jack E. Brown Chemical Engineering Building	205,000	006871	CHW	101,817	mBtu	
0386	Jack E. Brown Chemical Engineering Building	205,000	002254	HHW	536,433	mBtu	
0387	Richardson Petroleum Engineering Building	113,700	005870	ELE	78,338	kWh	
0387	Richardson Petroleum Engineering Building	113,700	005872	ELE	97,307	kWh	
0387	Richardson Petroleum Engineering Building	113,700	005805	CHW	660,391	mBtu	
0387	Richardson Petroleum Engineering Building	113,700	005809	HHW	234,244	mBtu	
0391-0392	James J. Cain '51 and Mechanical Engineering Office Building	173,481	001573	ELE	186,342	kWh	
0391-0392	James J. Cain '51 and Mechanical Engineering Office Building	173,481	002906	CHW	1,095,292	mBtu	
0391-0392	James J. Cain '51 and Mechanical Engineering Office Building	173,481	002910	HHW	322,382	mBtu	

Table I-1 February 2017 Monthly Consumption for TAMU Buildings (Continued)

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
0394	Underwood Residence Hall	81,730	000014	ELE	50,716	kWh	
0394	Underwood Residence Hall	81,730	002117	CHW	422,347	mBtu	(1)
0394	Underwood Residence Hall	81,730	002121	HHW	275,856	mBtu	(1)
0398	Langford Architecture Center Building A	116,619	003806	ELE	114,038	kWh	
0398	Langford Architecture Center Building A	116,619	003951	CHW	528,263	mBtu	(2)
0398	Langford Architecture Center Building A	116,619	003955	HHW	264,516	mBtu	(2)
0400-0402-1405	Spence Hall, Briggs Hall, and Ash II LLC	108,555	009386	ELE	82,118	kWh	
0400	Spence Hall Dorm 1	38,907	009290	ELE	12,804	kWh	
0400	Spence Hall Dorm 1	38,907	009291	ELE	15,117	kWh	
0400-1405	Spence Hall and Ash II LLC	72,038	009292	CHW	320,690	mBtu	
0400-1405	Spence Hall and Ash II LLC	72,038	009296	HHW	139,544	mBtu	
1405	Ash II LLC	33,131	009387	CHW	125,167	mBtu	
1405	Ash II LLC	33,131	009391	HHW	29,867	mBtu	
0402	Briggs Hall Dorm 3	36,517	009322	ELE	14,784	kWh	
0402	Briggs Hall Dorm 3	36,517	009323	ELE	11,989	kWh	
0402	Briggs Hall Dorm 3	36,517	009324	CHW	213,007	mBtu	
0402	Briggs Hall Dorm 3	36,517	009328	HHW	84,443	mBtu	
0401-0403-1404	Kiest Hall, Fountain Hall, and Plank LLC	108,752	009370	ELE	80,679	kWh	
0401	Kiest Hall Dorm 2	38,815	009306	ELE	12,539	kWh	
0401	Kiest Hall Dorm 2	38,815	009307	ELE	13,355	kWh	
0401-1404	Kiest Hall, and Plank LLC	72,052	009308	CHW	379,789	mBtu	
0401-1404	Kiest Hall, and Plank LLC	72,052	009312	HHW	153,956	mBtu	
1404	Plank LLC	33,237	009372	CHW	173,637	mBtu	
1404	Plank LLC	33,237	009376	HHW	49,596	mBtu	
0403	Fountain Hall Dorm 4	36,700	009338	ELE	13,245	kWh	
0403	Fountain Hall Dorm 4	36,700	009339	ELE	12,123	kWh	
0403	Fountain Hall Dorm 4	36,700	009340	CHW	203,195	mBtu	
0403	Fountain Hall Dorm 5	36,700	009344	HHW	84,331	mBtu	
0404-0406-1403	Gainer Hall, Leonard Hall and Ash LLC	90,072	009401	ELE	66,689	kWh	
0406-1403	Leonard Hall - Dorm 7 and Ash LLC	53,508	007982	CHW	293,271	mBtu	
0406-1403	Leonard Hall - Dorm 7 and Ash LLC	53,508	007983	HHW	113,453	mBtu	
0406	Leonard Hall - Dorm 7	36,222	008011	ELE	12,033	kWh	
0406	Leonard Hall - Dorm 7	36,222	008012	ELE	13,877	kWh	
1403	H. Grady Ash, Jr. '58 Leadership Learning Center	17,286	008005	CHW	82,953	mBtu	
1403	H. Grady Ash, Jr. '58 Leadership Learning Center	17,286	008006	HHW	22,634	mBtu	
0404	Gainer Hall Dorm 5	36,564	009354	ELE	11,068	kWh	
0404	Gainer Hall Dorm 5	36,564	009355	ELE	11,249	kWh	
0404	Gainer Hall Dorm 5	36,564	009356	CHW	180,965	mBtu	
0404	Gainer Hall Dorm 5	36,564	009360	HHW	87,838	mBtu	
0405-0407-1402	Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center	91,310	007721	ELE	69,925	kWh	
0407-1402	Harrell Hall - Dorm 8 and Buzbee LLC	54,443	007722	CHW	267,285	mBtu	
0407-1402	Harrell Hall - Dorm 8 and Buzbee LLC	54,443	007723	HHW	89,182	mBtu	
0405	Lacy Hall - Dorm 6	36,867	007922	ELE	25,658	kWh	
0405	Lacy Hall - Dorm 6	36,867	007918	CHW	231,059	mBtu	
0405	Lacy Hall - Dorm 6	36,867	007919	HHW	119,212	mBtu	
0407	Harrell Hall - Dorm 8	36,943	007729	ELE	25,386	kWh	
1402	Buzbee Leadership Learning Center	17,500	007725	CHW	140,954	mBtu	
1402	Buzbee Leadership Learning Center	17,500	007726	HHW	22,189	mBtu	
0412	Moses Residence Hall	40,828	000027	ELE	31,483	kWh	
0412	Moses Residence Hall	40,828	002384	CHW	381,205	mBtu	
0412	Moses Residence Hall	40,828	002395	HHW	215,281	mBtu	
0415	Davis-Gary Residence Hall	40,828	000030	ELE	31,684	kWh	
0415	Davis-Gary Residence Hall	40,828	002532	CHW	325,277	mBtu	
0415	Davis-Gary Residence Hall	40,828	002543	HHW	236,696	mBtu	
0419	Leggett Residence Hall	45,134	000031	ELE	16,906	kWh	(2)
0419	Leggett Residence Hall	45,134	002218	CHW	236,143	mBtu	(2)
0419	Leggett Residence Hall	45,134	002222	HHW	117,789	mBtu	(2)
0420	Milner Hall	48,268	009144	ELE	22,725	kWh	
0420	Milner Hall	48,268	009145	CHW	113,086	mBtu	
0420	Milner Hall	48,268	009146	HHW	65,082	mBtu	
0422	Walton Residence Hall	51,494	000378	ELE	57,722	kWh	
0422	Walton Residence Hall	51,494	002364	HHW	77,780	mBtu	
0424	Hotard Hall	18,500	000032	ELE	12,557	kWh	
0424	Hotard Hall	18,500	002657	CHW	97,698	mBtu	
0424	Hotard Hall	18,500	002668	HHW	77,750	mBtu	
0425	Henderson Hall	22,185	001553	ELE	13,526	kWh	
0425	Henderson Hall	22,185	002607	CHW	111,246	mBtu	(1)
0425	Henderson Hall	22,185	002611	HHW	76,795	mBtu	(1)
0426-0427-0428	FHK Complex	154,349	000331	ELE	112,172	kWh	
0426-0427-0428	FHK Complex	154,349	002848	CHW	869,130	mBtu	
0426-0427-0428	FHK Complex	154,349	002859	HHW	657,222	mBtu	
0430	Schumacher Residence Hall	38,957	000034	ELE	31,812	kWh	
0430	Schumacher Residence Hall	38,957	002015	CHW	213,374	mBtu	
0430	Schumacher Residence Hall	38,957	002030	HHW	131,641	mBtu	

Table I-1 February 2017 Monthly Consumption for TAMU Buildings (Continued)

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
0359	Architecture Building B	28,545	005518	ELE	20,574	kWh	
0432	Architecture Building C	73,020	005584	ELE	78,426	kWh	
0359-0432	Architecture Building B&C	101,565	006419	CHW	491,296	mBtu	
0359-0432	Architecture Building B&C	101,565	006423	HHW	259,173	mBtu	
0434	Luedecke Building (Cyclotron)	80,646	005555	ELE	95,628	kWh	*, (2)
0434	Luedecke Building (Cyclotron)	80,646	005558	ELE	644,099	kWh	*, (2)
0434	Luedecke Building (Cyclotron)	80,646	006664	CHW	1,211,896	mBtu	*, (2)
0434	Luedecke Building (Cyclotron)	80,646	006668	HHW	180,616	mBtu	*, (2)
0435	Harrington Education Center Office Tower	130,844	001546	ELE	108,065	kWh	
0435	Harrington Education Center Office Tower	130,844	002792	CHW	590,037	mBtu	
0435	Harrington Education Center Office Tower	130,844	002796	HHW	394,620	mBtu	
0436	Reed-McDonald Building	77,435	006868	ELE	79,135	kWh	
0436	Reed-McDonald Building	77,435	002419	CHW	596,080	mBtu	
0436	Reed-McDonald Building	77,435	002423	HHW	363,365	mBtu	
0438	Harrington Education Center Classroom Building	61,860	003630	ELE	36,764	kWh	
0438	Harrington Education Center Classroom Building	61,860	002784	CHW	140,091	mBtu	
0438	Harrington Education Center Classroom Building	61,860	002788	HHW	4,731	mBtu	
0433-0440-0441-0442-0447	Mosher Commons Krueger Dunn Aston	577,584	009099	ELE	349,581	kWh	
0433	Mosher Residence Hall	155,430	009083	ELE	97,537	kWh	(2)
0433	Mosher Residence Hall	155,430	002485	CHW	1,453,585	mBtu	(2)
0433	Mosher Residence Hall	155,430	002489	HHW	674,139	mBtu	(2)
0440	Commons Hall	84,500	009237	CHW	310,863	mBtu	
0440	Commons Hall	84,500	009238	HHW	199,588	mBtu	
0441	Krueger Residence Hall	112,133	009091	ELE	75,456	kWh	
0441	Krueger Residence Hall	112,133	002504	CHW	558,159	mBtu	
0441	Krueger Residence Hall	112,133	002500	HHW	358,211	mBtu	
0442	Dunn Residence Hall	112,133	009095	ELE	109,420	kWh	
0442	Dunn Residence Hall	112,133	002519	CHW	667,918	mBtu	
0442	Dunn Residence Hall	112,133	002515	HHW	398,092	mBtu	
0447	Aston Residence Hall	113,388	009087	ELE	66,819	kWh	
0447	Aston Residence Hall	113,388	002474	CHW	542,168	mBtu	#, (1)
0447	Aston Residence Hall	113,388	002470	HHW	609,804	mBtu	
0443	Oceanography & Meteorology Building	180,316	005322	ELE	159,315	kWh	
0443	Oceanography & Meteorology Building	180,316	005323	ELE	62,075	kWh	
0443	Oceanography & Meteorology Building	180,316	006388	CHW	721,184	mBtu	#, (1), (2)
0443	Oceanography & Meteorology Building	180,316	006392	HHW	325,746	mBtu	(2)
0444	Peterson Building	84,831	004714	ELE	152,389	kWh	*
0444	Peterson Building	84,831	002922	CHW	878,240	mBtu	
0444	Peterson Building	84,831	006435	HHW	366,135	mBtu	
0445-0517	Teague Research Center and DPC Annex	89,735	003948	ELE	25,668	kWh	
0445-0517	Teague Research Center and DPC Annex	89,735	004719	ELE	49,511	kWh	
0445	Teague Research Center	63,515	006411	CHW	178,941	mBtu	(1), (2)
0445	Teague Research Center	63,515	006415	HHW	37,024	mBtu	(1), (2)
0517	DPC Annex	26,220	006563	CHW	341,715	mBtu	(1), (2)
0517	DPC Annex	26,220	006567	HHW	246,502	mBtu	(2)
0446	Rudder Theatre Complex	209,293	002977	ELE	55,366	kWh	*, (2)
0446	Rudder Theatre Complex	209,293	002980	ELE	30,835	kWh	*, (2)
0446	Rudder Theatre Complex	209,293	004297	CHW	587,116	mBtu	*, (2)
0446	Rudder Theatre Complex	209,293	004309	HHW	308,139	mBtu	*, (2)
0446	Rudder Tower	92,947	001550	ELE	25,444	kWh	
0446	Rudder Tower	92,947	001551	ELE	59,064	kWh	*
0446	Rudder Tower	92,947	002455	CHW	341,193	mBtu	(1)
0446	Rudder Tower	92,947	002459	HHW	284,512	mBtu	
0448	Adams Band Hall	55,248	000978	ELE	56,159	kWh	
0448	Adams Band Hall	55,248	002555	CHW	436,432	mBtu	
0448	Adams Band Hall	55,248	002566	HHW	295,402	mBtu	
0449	Biological Sciences Building - West	96,038	003978	ELE	172,278	kWh	
0449	Biological Sciences Building - West	96,038	003981	CHW	882,453	mBtu	
0449	Biological Sciences Building - West	96,038	003985	HHW	336,138	mBtu	
0450	Duncan Dining Hall	128,482	000300	ELE	95,078	kWh	
0450	Duncan Dining Hall	128,482	002998	CHW	379,054	mBtu	
0450	Duncan Dining Hall	128,482	003009	HHW	90,957	mBtu	
0454	MSC (East Main)	392,000	007600	ELE	269,206	kWh	
0454	MSC (West Main)	392,000	007601	ELE	204,274	kWh	
0454	MSC BOR	392,000	008047	ELE	18,715	kWh	
0454	MSC	392,000	007584	CHW	1,712,919	mBtu	
0454	MSC BOR	392,000	004184	CHW	316,905	mBtu	
0454	MSC	392,000	007585	HHW	414,796	mBtu	
0454	MSC BOR	392,000	004196	HHW	262,984	mBtu	
0456	Military Sciences Building	43,808	006939	CHW	369,404	mBtu	*
0456	Military Sciences Building	43,808	006943	HHW	204,948	mBtu	*
0457	TAES Annex Building	16,364	005863	ELE	13,183	kWh	
0457	TAES Annex Building	16,364	005913	CHW	41,665	mBtu	
0457	TAES Annex Building	16,364	005917	HHW	21,181	mBtu	

Table I-1 February 2017 Monthly Consumption for TAMU Buildings (Continued)

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
0461	Coke Building	24,466	004008	ELE	27,101	kWh	
0461	Coke Building	24,466	005307	CHW	60,279	mBtu	
0461	Coke Building	24,466	004023	HHW	13,399	mBtu	
0462	Academic Building	82,555	005861	ELE	19,913	kWh	
0462	Academic Building	82,555	005903	ELE	32,715	kWh	
0462	Academic Building	82,555	005905	CHW	394,204	mBtu	
0462	Academic Building	82,555	005909	HHW	275,174	mBtu	
0463	Psychology Building	48,215	001575	ELE	37,077	kWh	
0463	Psychology Building	48,215	002941	CHW	297,267	mBtu	(2)
0463	Psychology Building	48,215	002945	HHW	68,933	mBtu	
0464	State Chemist Building	20,027	005839	ELE	4,480	kWh	
0464	State Chemist Building	20,027	005837	ELE	2,937	mBtu	
0464	State Chemist Building	20,027	005841	HHW	23,387	mBtu	
0465	Butler Hall	29,699	003997	ELE	28,931	kWh	
0465	Butler Hall	29,699	004000	CHW	142,455	mBtu	
0465	Butler Hall	29,699	004004	HHW	88,432	mBtu	
0467	Biological Sciences Building - East	62,273	001543	ELE	169,584	kWh	
0467	Biological Sciences Building - East	62,273	003851	CHW	581,519	mBtu	#, (1)
0467	Biological Sciences Building - East	62,273	003862	HHW	119,160	mBtu	
0468	Evans Library	712,093	000304	ELE	228,322	kWh	
0468	Evans Library	712,093	000318	ELE	129,193	kWh	
0468	Evans Library	712,093	000319	ELE	87,519	kWh	
0468	Evans Library	712,093	000320	ELE	75,116	kWh	*
0468	Evans Library	712,093	006429	ELE	89,378	kWh	*
0468	Evans Library	712,093	003701	CHW	788,177	mBtu	
0468	Evans Library	712,093	003895	CHW	916,582	mBtu	
0468	Evans Library	712,093	003903	CHW	199,628	mBtu	
0468	Evans Library	712,093	003911	CHW	1,225,624	mBtu	
0468	Evans Library	712,093	003712	HHW	192,657	mBtu	
0468	Evans Library	712,093	003899	HHW	138,444	mBtu	
0468	Evans Library	712,093	003907	HHW	67,620	mBtu	
0468	Evans Library	712,093	003922	HHW	94,603	mBtu	
0468	Evans Library	712,093	005303	HHW	47,011	mBtu	
0469	Central Campus Parking Garage	251,304	000306	ELE	42,792	kWh	*
0469	Central Campus Parking Garage	2,844	003716	CHW	16,143	mBtu	
0469	Central Campus Parking Garage	2,844	003720	HHW	8,738	mBtu	
0470	Glasscock History Bldg	39,887	006407	ELE	17,234	kWh	
0470	Glasscock History Bldg	39,887	006638	CHW	98,719	mBtu	
0470	Glasscock History Bldg	39,887	006642	HHW	40,627	mBtu	
0471	Pavilion	40,062	001455	ELE	35,946	kWh	
0471	Pavilion	40,062	002769	CHW	142,521	mBtu	
0471	Pavilion	40,062	002780	HHW	29,871	mBtu	
0472	Animal Industries	44,856	009042	ELE	48,635	kWh	
0472	Animal Industries	44,856	009109	CHW	234,242	mBtu	
0472	Animal Industries	44,856	009113	HHW	154,853	mBtu	
0473	Williams Administration Building	69,898	007945	ELE	45,506	kWh	
0473	Williams Administration Building	69,898	007946	CHW	252,140	mBtu	
0473	Williams Administration Building	69,898	007947	HHW	138,797	mBtu	
0474	YMCA Building	36,035	007524	ELE	22,209	kWh	
0474	YMCA Building	36,035	007525	CHW	79,455	mBtu	
0474	YMCA Building	36,035	007526	HHW	15,184	mBtu	
0476	Francis Hall	36,850	008015	ELE	32,051	kWh	
0476	Francis Hall	36,850	008033	CHW	172,935	mBtu	
0476	Francis Hall	36,850	008034	HHW	27,309	mBtu	
0477	Anthropology Building	51,592	001558	ELE	31,057	kWh	
0477	Anthropology Building	51,592	003664	CHW	232,721	mBtu	
0477	Anthropology Building	51,592	003668	HHW	106,297	mBtu	
0478	Scoates Hall	62,228	007961	ELE	51,747	kWh	
0478	Scoates Hall	62,228	007968	CHW	205,481	mBtu	
0478	Scoates Hall	62,228	007969	HHW	93,025	mBtu	
0480	Bolton Hall	39,686	006845	ELE	29,783	kWh	
0480	Bolton Hall	39,686	007012	CHW	134,463	mBtu	
0480	Bolton Hall	39,686	007016	HHW	50,366	mBtu	
0481	Heaton Hall	13,640	005712	ELE	NA	kWh	*
0481	Heaton Hall	13,640	007531	CHW	231,011	mBtu	#, (1)
0481	Heaton Hall	13,640	007535	HHW	194,270	mBtu	#, (1)
0482	Fermier Hall	19,074	005779	ELE	12,408	kWh	
0482	Fermier Hall	19,074	005878	CHW	45,565	mBtu	(2)
0482	Fermier Hall	19,074	005881	HHW	12,096	mBtu	(2)

Table I-1 February 2017 Monthly Consumption for TAMU Buildings (Continued)

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
0483	Thompson Hall	81,404	003688	ELE	68,888	kWh	
0483	Thompson Hall	81,404	003887	CHW	247,510	mBtu	
0483	Thompson Hall	81,404	003891	HHW	60,896	mBtu	
0484	Chemistry Building	205,393	007152	ELE	83,145	kWh	*
0484	Chemistry Building	205,393	007556	ELE	10,650	kWh	
0484	Chemistry Building	205,393	007557	ELE	24,122	kWh	(2)
0484	Chemistry Building	205,393	007559	ELE	149,404	kWh	
0484	Chemistry Building	205,393	007223	CHW	1,586,186	mBtu	
0484	Chemistry Building	205,393	007227	HHW	940,536	mBtu	
0490	Halbouty Geosciences Building	120,874	006691	ELE	62,335	kWh	
0490	Halbouty Geosciences Building	120,874	006695	ELE	93,898	kWh	
0490	Halbouty Geosciences Building	120,874	006896	CHW	821,107	mBtu	
0490	Halbouty Geosciences Building	120,874	006913	CHW	543,846	mBtu	
0490	Halbouty Geosciences Building	120,874	006900	HHW	365,808	mBtu	#, (1)
0490	Halbouty Geosciences Building	120,874	006917	HHW	299,636	mBtu	
0492	Civil Engineering Building	56,537	005783	ELE	57,942	kWh	*
0492	Civil Engineering Building	56,537	005950	CHW	200,266	mBtu	(2)
0492	Civil Engineering Building	56,537	005954	HHW	47,401	mBtu	(2)
0495	Sbisa Dining Hall	94,233	000352	ELE	138,393	kWh	
0495	Sbisa Dining Hall	94,233	000353	ELE	120,381	kWh	
0495	Sbisa Dining Hall	94,233	001951	CHW	840,004	mBtu	
0495	Sbisa Dining Hall	94,233	001957	HHW	212,516	mBtu	
0496	Utilities & Energy Services Central Office	46,110	007706	ELE	10,471	kWh	(2)
0496	Utilities & Energy Services Central Office	46,110	006929	CHW	63,031	mBtu	(2)
0496	Utilities & Energy Services Central Office	46,110	006933	HHW	17,051	mBtu	(2)
0499	Engineering Innovation Center	28,339	001561	ELE	23,839	kWh	*
0499	Engineering Innovation Center	28,339	002672	CHW	66,224	mBtu	#, (1), (2)
0499	Engineering Innovation Center	28,339	002683	HHW	50,509	mBtu	#, (1)
0501	Concrete Materials Laboratory	9,600	005791	ELE	7,929	kWh	
0506	Nagle Hall	32,306	001484	ELE	11,326	kWh	(2)
0506	Nagle Hall	32,306	003619	CHW	184,403	mBtu	(2)
0506	Nagle Hall	32,306	003623	HHW	46,306	mBtu	(2)
0507	Veterinary Medical Science Building	69,367	003013	ELE	70,316	kWh	
0507	Veterinary Medical Science Building	69,367	003640	CHW	803,772	mBtu	
0507	Veterinary Medical Science Building	69,367	003644	HHW	414,227	mBtu	
0508	Veterinary Teaching Hospital	96,416	003022	ELE	67,348	kWh	
0508-1026	Veterinary Teaching Hospital and Veterinary Medicine Administration	191,096	004166	CHW	1,363,048	mBtu	#, (1)
0508-1026	Veterinary Teaching Hospital and Veterinary Medicine Administration	191,096	004170	HHW	615,595	mBtu	*
0511	Heep Laboratory Building	40,476	005787	ELE	52,410	kWh	
0511	Heep Laboratory Building	40,476	005821	CHW	393,988	mBtu	#, (1)
0511	Heep Laboratory Building	40,476	005825	HHW	212,029	mBtu	#, (1)
0512	All Faiths Chapel	8,999	004340	ELE	6,902	kWh	
0512	All Faiths Chapel	8,999	004288	CHW	42,200	mBtu	#, (1), (2)
0512	All Faiths Chapel	8,999	004293	HHW	51,156	mBtu	#, (1)
0513	Doherty Building	42,336	000299	ELE	50,855	kWh	*
0513	Doherty Building	42,336	002898	CHW	511,528	mBtu	*
0513	Doherty Building	42,336	002902	HHW	339,987	mBtu	*
0514	Munnerlyn Astronomy & Space Sciences Engineering	22,134	007558	ELE	10,943	kWh	
0514	Munnerlyn Astronomy & Space Sciences Engineering	22,134	007487	CHW	40,093	mBtu	
0514	Munnerlyn Astronomy & Space Sciences Engineering	22,134	007491	HHW	5,812	mBtu	
0516	Computing Services Center	30,014	005259	ELE	468,182	kWh	
0516	Computing Services Center	30,014	003959	CHW	1,425,412	mBtu	
0516	Computing Services Center	30,014	003963	HHW	1	mBtu	
0520	Beutel Health Center	63,318	003785	ELE	65,765	kWh	
0520	Beutel Health Center	63,318	003933	CHW	369,052	mBtu	
0520	Beutel Health Center	63,318	003944	HHW	139,550	mBtu	
0521	Heldenfels Hall	104,949	001547	ELE	91,696	kWh	
0521	Heldenfels Hall	104,949	002962	CHW	610,437	mBtu	
0521	Heldenfels Hall	104,949	002973	HHW	130,239	mBtu	
0524	Blocker Building	257,953	001545	ELE	188,770	kWh	
0524	Blocker Building	257,953	002914	CHW	910,356	mBtu	
0524	Blocker Building	257,953	002918	HHW	190,853	mBtu	(2)
0548	Clements Residence Hall	62,156	000048	ELE	36,233	kWh	
0548	Clements Residence Hall	62,156	002729	CHW	607,801	mBtu	
0548	Clements Residence Hall	62,156	002740	HHW	396,783	mBtu	
0549	Haas Residence Hall	69,668	001398	ELE	44,129	kWh	
0549	Haas Residence Hall	69,668	002983	CHW	575,990	mBtu	
0549	Haas Residence Hall	69,668	002994	HHW	468,323	mBtu	

Table I-1 February 2017 Monthly Consumption for TAMU Buildings (Continued)

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
0550	McFadden Residence Hall	62,156	000339	ELE	39,202	kWh	
0550	McFadden Residence Hall	62,156	002188	CHW	648,737	mBtu	
0550	McFadden Residence Hall	62,156	002192	HHW	478,041	mBtu	
0652	Neeley Residence Hall	69,668	000056	ELE	44,908	kWh	
0652	Neeley Residence Hall	69,668	002147	CHW	347,718	mBtu	
0652	Neeley Residence Hall	69,668	002151	HHW	234,117	mBtu	
0653	Hobby Residence Hall	62,156	000057	ELE	50,973	kWh	
0653	Hobby Residence Hall	62,156	002401	CHW	598,998	mBtu	
0653	Hobby Residence Hall	62,156	002405	HHW	356,328	mBtu	
0682	Wisenbaker Engineering Research Center	177,704	005246	ELE	201,259	kWh	
0682	Wisenbaker Engineering Research Center	177,704	003879	CHW	778,606	mBtu	
0682	Wisenbaker Engineering Research Center	177,704	003883	HHW	222,551	mBtu	
0740	McNew Laboratory	20,904	005874	ELE	48,665	kWh	*,(2)
0740	McNew Laboratory	20,904	005974	CHW	374,596	mBtu	#, (1), (2)
0740	McNew Laboratory	20,904	005968	HHW	39,725	mBtu	#, (1), (2)
0806	Soil Testing Labs	5,544	006875	ELE	16,469	kWh	
0815	Entomology Research Lab	17,618	005799	ELE	27,053	kWh	#, (1)
0815	Entomology Research Lab	17,618	006043	CHW	136,223	mBtu	(2)
0880	TVMC-Small Animal Building	3,260	005958	CHW	25,709	mBtu	
0880	TVMC-Small Animal Building	3,260	005962	HHW	181	mBtu	(2)
0972	Laboratory Animal Care Building	52,178	007063	ELE	113,780	kWh	
0972	Laboratory Animal Care Building	52,178	007067	ELE	44,121	kWh	
0972	Laboratory Animal Care Building	52,178	007071	CHW	1,345,168	mBtu	
0972	Laboratory Animal Care Building	52,178	006991	HHW	398,049	mBtu	
1020	Vivarium III	12,234	005857	ELE	21,588	kWh	
1020	Vivarium III	12,234	005997	CHW	177,989	mBtu	#, (1)
1020	Vivarium III	12,234	006001	HHW	95,899	mBtu	#, (1)
1026	Veterinary Medicine Administration	94,680	006072	ELE	115,304	kWh	
1026	Veterinary Medicine Administration	94,680	006049	CHW	828,067	mBtu	
1026	Veterinary Medicine Administration	98,680	006053	HHW	518,926	mBtu	*,(2)
1041	Texas Vet Med Diagnostic Lab	55,169	001466	ELE	91,284	kWh	*
1041	Texas Vet Med Diagnostic Lab	55,169	001539	ELE	75,286	kWh	*
1041	Texas Vet Med Diagnostic Lab	55,169	003817	CHW	482,577	mBtu	*
1041	Texas Vet Med Diagnostic Lab	55,169	004137	CHW	712,572	mBtu	*
1041	Texas Vet Med Diagnostic Lab	55,169	003821	HHW	149,096	mBtu	*
1041	Texas Vet Med Diagnostic Lab	55,169	004130	HHW	156,634	mBtu	*
1042	Forest Science Laboratory Building	9,632	006036	ELE	19,533	kWh	
1085	Veterinary Small Animal Hospital	103,440	004136	ELE	203,382	kWh	
1085	Veterinary Small Animal Hospital	103,440	003656	CHW	1,060,288	mBtu	
1085	Veterinary Small Animal Hospital	103,440	003660	HHW	471,911	mBtu	
1089	Utilities Energy Office Annex	2,937	006964	ELE	4,749	kWh	
1146	Biological Control Facility	13,492	005795	ELE	29,943	kWh	
1146	Biological Control Facility	13,492	005887	CHW	122,537	mBtu	(2)
1146	Biological Control Facility	13,492	005891	HHW	61,745	mBtu	
1156	Physical Plant Administration & Shops	101,704	007483	ELE	94,499	kWh	
1156	Physical Plant Administration & Shops	101,704	007679	CHW	131,076	mBtu	(2)
1156	Physical Plant Administration & Shops	101,704	007683	HHW	127,580	mBtu	
1184	Veterinary Anatomic Pathology	17,223	001445	ELE	49,920	kWh	
1184	Veterinary Anatomic Pathology	17,223	006995	CHW	141,180	mBtu	
1184	Veterinary Anatomic Pathology	17,223	006999	HHW	100,291	mBtu	
1194	Veterinary Large Animal Hospital	140,865	005256	ELE	88,708	kWh	
1194	Veterinary Large Animal Hospital	140,865	003016	ELE	65,935	kWh	
1194	Veterinary Large Animal Hospital	140,865	007455	ELE	39,840	kWh	
1194	Veterinary Large Animal Hospital	140,865	003648	CHW	1,013,203	mBtu	
1194	Veterinary Large Animal Hospital	140,865	007456	CHW	224,540	mBtu	
1194	Veterinary Large Animal Hospital	140,865	003652	HHW	692,917	mBtu	
1194	Veterinary Large Animal Hospital	140,865	007457	HHW	52,967	mBtu	
1197	Veterinary Research Building	114,666	006355	ELE	65,266	kWh	(2)
1197	Veterinary Research Building	114,666	006359	ELE	32,277	kWh	(2)
1197	Veterinary Research Building	114,666	006062	CHW	1,164,847	mBtu	
1197	Veterinary Research Building	114,666	006066	HHW	488,174	mBtu	
1416	Hullabaloo Residence Hall	253,452	007845	ELE	175,160	kWh	
1416	Hullabaloo Residence Hall	253,452	007846	CHW	810,513	mBtu	
1416	Hullabaloo Residence Hall	253,452	007847	HHW	157,623	mBtu	

Table I-1 February 2017 Monthly Consumption for TAMU Buildings (Continued)

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
1450	University Apartments - Laundry at the Gardens	1,428	006885	ELE	5,744	kWh	
1451	University Apartments - The Gardens J	33,535	006981	ELE	16,267	kWh	
1452	University Apartments - The Gardens K	33,535	006979	ELE	15,758	kWh	
1453	University Apartments - The Gardens L	33,535	006884	ELE	15,864	kWh	
1454	University Apartments - The Gardens F	33,535	006980	ELE	19,030	kWh	*
1455	University Apartments - The Gardens G	33,535	006882	ELE	17,109	kWh	*
1456	University Apartments - The Gardens H	33,535	007962	ELE	15,481	kWh	
1457	University Apartments - The Gardens M	33,535	007503	ELE	22,716	kWh	
1458	University Apartments - The Gardens N	33,535	007504	ELE	18,590	kWh	
1459	University Apartments - The Gardens P	33,535	007505	ELE	20,969	kWh	
1460	University Apartments - The Gardens Q	33,535	007506	ELE	16,666	kWh	
1497	Utilities & Energy Services Business Office	3,480	007082	ELE	3,564	kWh	
1497	Utilities & Energy Services Business Office	3,480	006341	CHW	10,411	mBtu	
1497	Utilities & Energy Services Business Office	3,480	006345	HHW	1,820	mBtu	
1501	Kleberg Center	165,031	007449	ELE	240,081	kWh	
1501	Kleberg Center	165,031	002624	CHW	1,115,168	mBtu	
1501	Kleberg Center	165,031	002628	HHW	904,933	mBtu	
1502	Heep Center	158,979	001556	ELE	236,616	kWh	
1502	Heep Center	158,979	002599	CHW	1,204,527	mBtu	
1502	Heep Center	158,979	002603	HHW	300,495	mBtu	
1503	Cater-Mattil Hall	27,958	007977	ELE	81,303	kWh	
1503	Cater-Mattil Hall	27,958	008001	CHW	247,059	mBtu	
1504	Reynolds Medical Sciences Building	169,859	003975	ELE	246,278	kWh	(2)
1504	Reynolds Medical Sciences Building	169,859	003989	CHW	1,729,194	mBtu	(2)
1504	Reynolds Medical Sciences Building	169,859	003993	HHW	823,518	mBtu	(2)
1505	Rosenthal Meat Science & Technology Center	30,889	003627	ELE	121,483	kWh	
1505	Rosenthal Meat Science & Technology Center	30,889	002573	CHW	163,518	mBtu	
1505	Rosenthal Meat Science & Technology Center	30,889	002577	HHW	72,144	mBtu	
1506	Horticulture-Forest Science Building	118,648	001544	ELE	139,579	kWh	
1506	Horticulture-Forest Science Building	118,648	003967	CHW	370,210	mBtu	
1506	Horticulture-Forest Science Building	118,648	003971	HHW	175,084	mBtu	
1507	Biochemistry-Biophysics Building	166,079	001459	ELE	156,831	kWh	
1507	Biochemistry-Biophysics Building	166,079	001460	ELE	153,237	kWh	
1507	Biochemistry-Biophysics Building	166,079	003025	CHW	1,105,635	mBtu	
1507	Biochemistry-Biophysics Building	166,079	003029	HHW	691,355	mBtu	
1508	Price Hobgood Ag. Engineering Research Lab	27,666	005638	ELE	23,144	kWh	*
1508	Price Hobgood Ag. Engineering Research Lab	27,666	006005	CHW	86,572	mBtu	
1508	Price Hobgood Ag. Engineering Research Lab	27,666	006009	HHW	23,305	mBtu	
1509	Medical Sciences Library	84,183	000350	ELE	94,790	kWh	
1509	Medical Sciences Library	84,183	003777	CHW	472,918	mBtu	
1509	Medical Sciences Library	84,183	003781	HHW	102,650	mBtu	
1510	Wehner Building	259,681	006849	ELE	191,499	kWh	
1510	Wehner Building	259,681	006685	ELE	231,542	kWh	
1510	Wehner Building	259,681	002687	CHW	1,251,977	mBtu	
1510	Wehner Building	259,681	002691	HHW	283,538	mBtu	(2)
1511	West Campus Library Facility	68,125	004342	ELE	80,194	kWh	
1511	West Campus Library Facility	68,125	004313	CHW	412,778	mBtu	
1511	West Campus Library Facility	68,125	004318	HHW	124,885	mBtu	
1512	Southern Crop Improvement Greenhouse	48,154	005931	ELE	81,903	kWh	# (1)
1513	Borlaug Center for Southern Crop Improvement	68,739	005802	ELE	273,632	kWh	
1513	Borlaug Center for Southern Crop Improvement	68,739	005936	CHW	651,070	mBtu	
1513	Borlaug Center for southern Crop Improvement	68,739	005895	HHW	216,364	mBtu	
1518	TX School of Rural Public Health A	69,079	005273	ELE	65,354	kWh	
1519	TX School of Rural Public Health B	24,761	005274	ELE	41,953	kWh	# (1)
1520	TX School of Rural Public Health C	13,264	005275	ELE	90,648	kWh	* # (1)
1518-1519-1520	TX School of Rural Public Health A,B,C	107,104	005294	CHW	621,267	mBtu	
1518-1519-1520	TX School of Rural Public Health A,B,C	107,104	005298	HHW	282,737	mBtu	
1525	Nuclear Magnetic Resonance Facility	37,282	006718	ELE	78,721	kWh	
1525	Nuclear Magnetic Resonance Facility	37,282	006715	CHW	650,908	mBtu	
1525	Nuclear Magnetic Resonance Facility	37,282	006716	HHW	486,132	mBtu	(2)
1530	Interdisciplinary Life Sciences Building	218,540	006286	ELE	356,293	kWh	
1530	Interdisciplinary Life Sciences Building	218,540	006288	ELE	200,866	kWh	
1530	Interdisciplinary Life Sciences Building	218,540	006290	CHW	2,235,847	mBtu	
1530	Interdisciplinary Life Sciences Building	218,540	006294	HHW	1,114,000	mBtu	
1535	Agriculture and Life Sciences Building	168,353	007205	ELE	109,176	kWh	
1535	Agriculture and Life Sciences Building	168,353	007206	CHW	405,003	mBtu	
1535	Agriculture and Life Sciences Building	168,353	007207	HHW	47,516	mBtu	

Table I-1 February 2017 Monthly Consumption for TAMU Buildings (Continued)

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
1536	AgriLife Services Building	80,907	007571	ELE	39,765	kWh	
1536	AgriLife Services Building	80,907	007572	CHW	146,627	mBtu	
1536	AgriLife Services Building	80,907	007573	HHW	49,658	mBtu	
1537	Agriculture Public Building	78,480	009620	ELE	24,245	kWh	* (2)
1537	Agriculture Public Building	78,480	009621	ELE	37,960	kWh	* (2)
1537	Agriculture Public Building	78,480	009622	CHW	151,277	mBtu	* (2)
1537	Agriculture Public Building	78,480	009623	HHW	173,047	mBtu	* (2)
1538	Agriculture Program Visitors Center	12,923	007209	ELE	13,246	kWh	
1538	Agriculture Program Visitors Center	12,923	007210	CHW	68,252	mBtu	
1538	Agriculture Program Visitors Center	12,923	007211	HHW	19,907	mBtu	
1540	Physical Education Activity Program Building	116,900	007881	ELE	74,720	kWh	
1540	Physical Education Activity Program Building	116,900	007878	CHW	336,196	mBtu	
1540	Physical Education Activity Program Building	116,900	007879	HHW	159,761	mBtu	
1542	Human Clinical Research Building	22,052	009693	ELE	45,544	kWh	
1542	Human Clinical Research Building	22,052	009683	CHW	210,570	mBtu	*
1542	Human Clinical Research Building	22,052	009687	HHW	163,914	mBtu	*
1544	Cain Garage	498,425	009613	ELE	36,583	kWh	*
1550	Olsen Field at Bluebell Park	60,537	007560	ELE	117,239	kWh	
1554	Reed Arena	230,000	007582	ELE	145,460	kWh	
1554	Reed Arena	230,000	006243	ELE	628	kWh	*
1554	Reed Arena	230,000	006244	ELE	80,174	kWh	*
1554-1558	Reed Arena and Cox-McFerrin Center	328,185	007576	CHW	1,674,168	mBtu	
1554-1558	Reed Arena and Cox-McFerrin Center	328,185	007578	HHW	820,295	mBtu	
1558	Cox-McFerrin Center for Aggie Basketball	98,185	007581	ELE	66,306	kWh	
1558	Cox-McFerrin Center for Aggie Basketball	98,185	007575	CHW	288,177	mBtu	
1558	Cox-McFerrin Center for Aggie Basketball	98,185	007577	HHW	167,859	mBtu	(2)
1559	West Campus Parking Garage	1,541,457	001453	ELE	142,319	kWh	
1559	West Campus Parking Garage	13,000	004322	CHW	33,433	mBtu	(2)
1559	West Campus Parking Garage	13,000	004327	HHW	15,827	mBtu	
1560	Student Recreation Center	334,642	000363	ELE	321,164	kWh	(2)
1560	Student Recreation Center	334,642	000366	ELE	318,952	kWh	(2)
1560	Student Recreation Center	334,642	002933	CHW	3,108,890	mBtu	(2)
1560	Student Recreation Center	334,642	002937	HHW	1,934,085	mBtu	(2)
1589-1590	White Creek Apartment 1 and White Creek Apts Activity Center	176,454	009197	ELE	100,753	kWh	
1589-1590	White Creek Apartment 1 and White Creek Apts Activity Center	176,454	009198	CHW	325,797	mBtu	
1589-1590	White Creek Apartment 1 and White Creek Apts Activity Center	176,454	009199	HHW	75,101	mBtu	
1591	White Creek Apartment 2	179,467	008528	ELE	114,636	kWh	
1591	White Creek Apartment 2	179,467	008529	CHW	325,728	mBtu	
1591	White Creek Apartment 2	179,467	008533	HHW	84,374	mBtu	
1592	White Creek Apartment 3	179,467	008538	ELE	107,828	kWh	
1592	White Creek Apartment 3	179,467	008539	CHW	361,110	mBtu	
1592	White Creek Apartment 3	179,467	008543	HHW	62,029	mBtu	
1600	Gilchrist TTI Building	67,143	005286	ELE	49,531	kWh	*
1600	Gilchrist TTI Building	67,143	002649	CHW	197,600	mBtu	# (1)
1600	Gilchrist TTI Building	67,143	002653	HHW	73,519	mBtu	# (1)
1601	International Ocean Discovery Building	86,576	006351	ELE	104,117	kWh	(2)
1601	International Ocean Discovery Building	86,576	006382	CHW	189,569	mBtu	(2)
1601	International Ocean Discovery Building	86,576	008144	CHW	36,026	mBtu	(2)
1601	International Ocean Discovery Building	86,576	008145	HHW	23,595	mBtu	(2)
1604	Offshore Technology Research Center	40,014	006659	ELE	86,695	kWh	
1604	Offshore Technology Research Center	40,014	006660	ELE	247	kWh	(2)
1604	Offshore Technology Research Center	40,014	008142	CHW	410,685	mBtu	*
1604	Offshore Technology Research Center	40,014	008143	HHW	220,767	mBtu	
1606	George Bush Presidential Library & Museum	121,678	000244	ELE	90,928	kWh	
1606	George Bush Presidential Library & Museum	121,678	002808	CHW	689,434	mBtu	
1606	George Bush Presidential Library & Museum	121,678	002812	HHW	289,234	mBtu	
1607	Allen Building	133,327	000243	ELE	96,208	kWh	
1607	Allen Building	133,327	002800	CHW	374,533	mBtu	
1607	Allen Building	133,327	002804	HHW	93,076	mBtu	
1608	Annenberg Presidential Conference Center	65,688	000245	ELE	66,638	kWh	
1608	Annenberg Presidential Conference Center	65,688	002761	CHW	515,489	mBtu	
1608	Annenberg Presidential Conference Center	65,688	002765	HHW	313,865	mBtu	
1609	TTI Headquarters	66,707	006495	ELE	45,757	kWh	*
1609	TTI Headquarters	66,707	006496	CHW	172,375	mBtu	
1609	TTI Headquarters	66,707	006497	HHW	40,631	mBtu	(2)
1611	Engineering Research Building	68,807	008462	ELE	143,299	kWh	
1611	Engineering Research Building	68,807	008463	CHW	887,787	mBtu	
1611	Engineering Research Building	68,807	008467	HHW	478,389	mBtu	

Table I-1 February 2017 Monthly Consumption for TAMU Buildings (*Continued*)

TAMU#	Building Name	Area (ft ²)	MeterID	Type	Monthly Consumption	Units	Comments
1800	General Services Complex	203,369	005441	ELE	160,195	kWh	
1800	General Services Complex	203,369	005468	CHW	585,029	mBtu	
1800	General Services Complex	203,369	005472	HHW	65,147	mBtu	
1809	New TVMDL	90,000	009652	ELE	NA	kWh	*
1809	New TVMDL	90,000	009653	ELE	NA	mBtu	*
1809	New TVMDL	90,000	009647	CHW	1,460,043	mBtu	*
1810	Office of the State Chemist Building	31,735	009073	ELE	56,255	kWh	
1810	Office of the State Chemist Building	31,735	005460	CHW	202,068	mBtu	
1810	Office of the State Chemist Building	31,735	005464	HHW	84,653	mBtu	
1811	Vet Med Research Bldg Addition	52,993	006705	ELE	203,780	kWh	
1811	Vet Med Research Bldg Addition	52,993	006706	CHW	671,498	mBtu	
1811	Vet Med Research Bldg Addition	52,993	006707	HHW	419,685	mBtu	
1812	Veterinary Medicine Building 1	138,460	009404	ELE	185,899	kWh	
1813	Veterinary Medicine Building 2	116,492	009418	ELE	2,676	kWh	*
1814	Veterinary Medicine Building 3	135,470	009405	ELE	249,881	kWh	
1812-1813-1814	Veterinary Medicine Building 1, 2 and 3	390,422	009676	CHW	2,059,560	mBtu	
1812-1813-1814	Veterinary Medicine Building 1, 2 and 3	390,422	009410	HHW	971,463	mBtu	
1900	Texas Institute for Genomic Medicine	34,120	005548	ELE	74,772	kWh	
1900	Texas Institute for Genomic Medicine	34,120	005545	CHW	617,954	mBtu	
1900	Texas Institute for Genomic Medicine	34,120	005546	HHW	331,994	mBtu	
1904	Texas A&M Institute for Preclinical Studies A	113,559	006364	ELE	198,961	kWh	
1904	Texas A&M Institute for Preclinical Studies A	113,559	006365	CHW	1,280,428	mBtu	
1904	Texas A&M Institute for Preclinical Studies A	113,559	006366	HHW	752,325	mBtu	
1910	National Center for Therapeutics Manufacturing	149,924	007517	ELE	181,568	kWh	
1910	National Center for Therapeutics Manufacturing	149,924	007518	ELE	175,628	kWh	
1910	National Center for Therapeutics Manufacturing	149,924	007519	CHW	3,159,517	mBtu	
1910	National Center for Therapeutics Manufacturing	149,924	007520	HHW	1,570,253	mBtu	(2)
1911	Multi-Species Research Building	21,000	009138	ELE	25,949	kWh	
1911	Multi-Species Research Building	21,000	009129	CHW	252,155	mBtu	
1911	Multi-Species Research Building	21,000	009133	HHW	171,635	mBtu	
10226	NCTM Manufacturing Building	113,397	007648	CHW	2,781,043	mBtu	
10226	NCTM Manufacturing Building	113,397	007649	HHW	1,216,189	mBtu	
10226	NCTM Manufacturing Building	113,397	008133	HHW	163,475	mBtu	

1 mBtu = 1 000 Btu

NA: Not available
Monthly consumption in blue: modified values

*: Missing data

#: Questionable data

(1): Consumption estimated and documented in the report *Part II - Data Analysis: Energy Use Estimation and Observations Section 2*

(2): Observation(s) documented in the report *Part II - Data Analysis: Energy Use Estimation and Observations Section 3*

(3): Missing data or changed consumption levels due to construction

II. Data Analysis: Energy Use Estimation and Observation

II-1 Meters with Missing Energy Consumption Data

During the month of February 2017, 47 meters in 25 buildings and complexes have missing daily data. The missing data have been filled in using consumption models based on the past data if available or using linear interpolation or some sort of average, and the monthly consumption has been estimated with the filled-in daily consumption. Table II-1 is the list of meters with missing data.

Table II-1 Meters with missing data during February 2017

[illegible]

CE TTI Office & Lab Building (TAMU Bldg #325-385)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	009123	28	2/1/2017 – 2/28/2017	Model

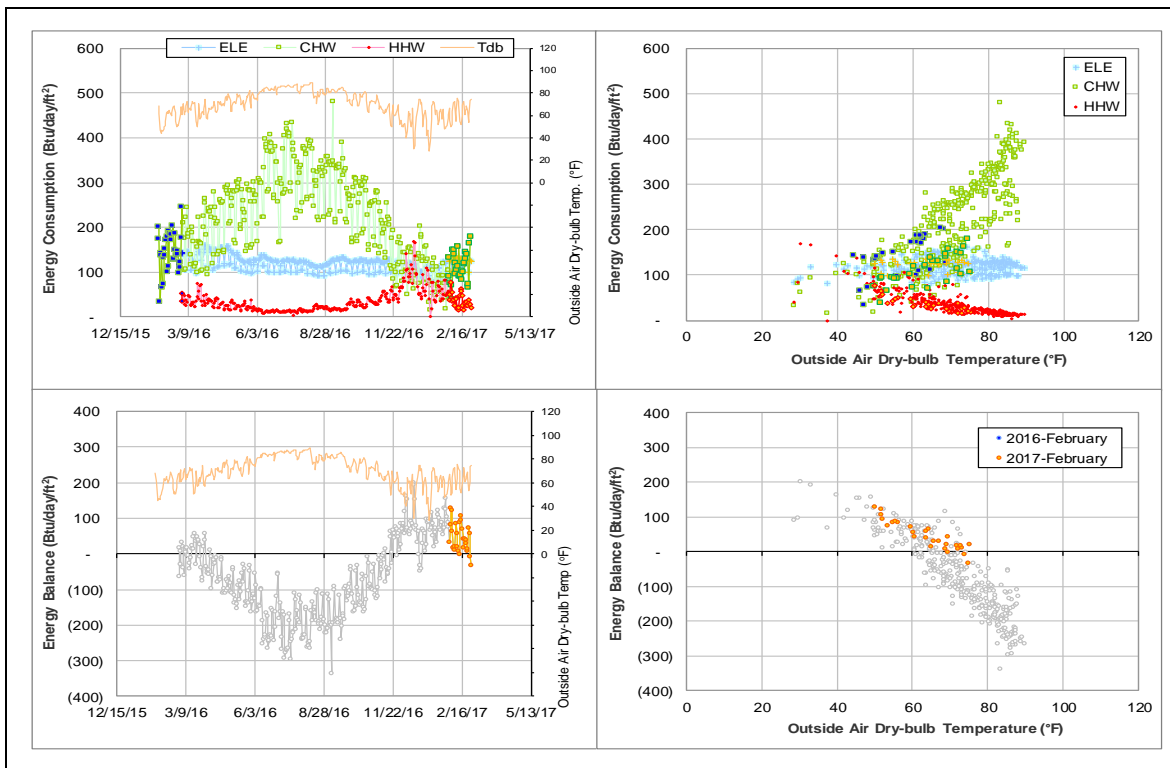
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption level is lower than the level during the past year.	1/1/2017 – Ongoing

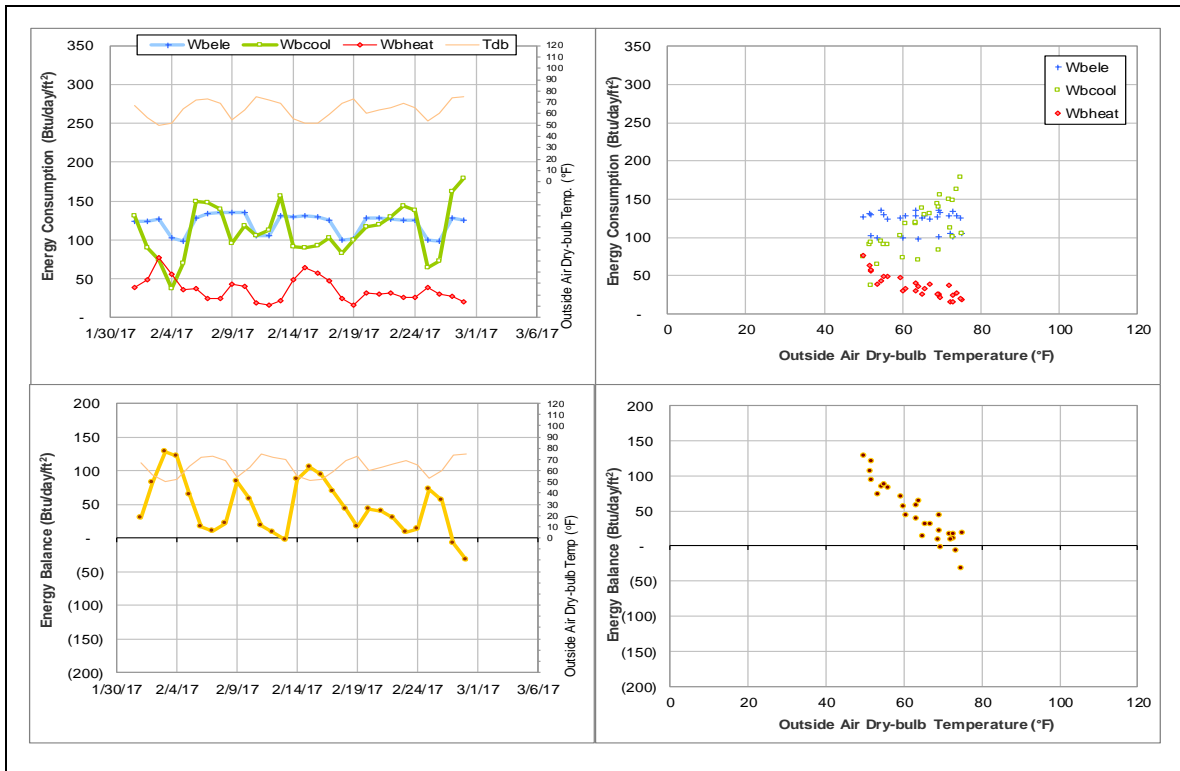
Quantitative descriptions and comments

CHW consumption gradually dropped to a level that is lower than the past year by 50 – 75 Btu/day/ft². No obvious sensor reading behavior anomaly is observed. The whole month is estimated using a model.

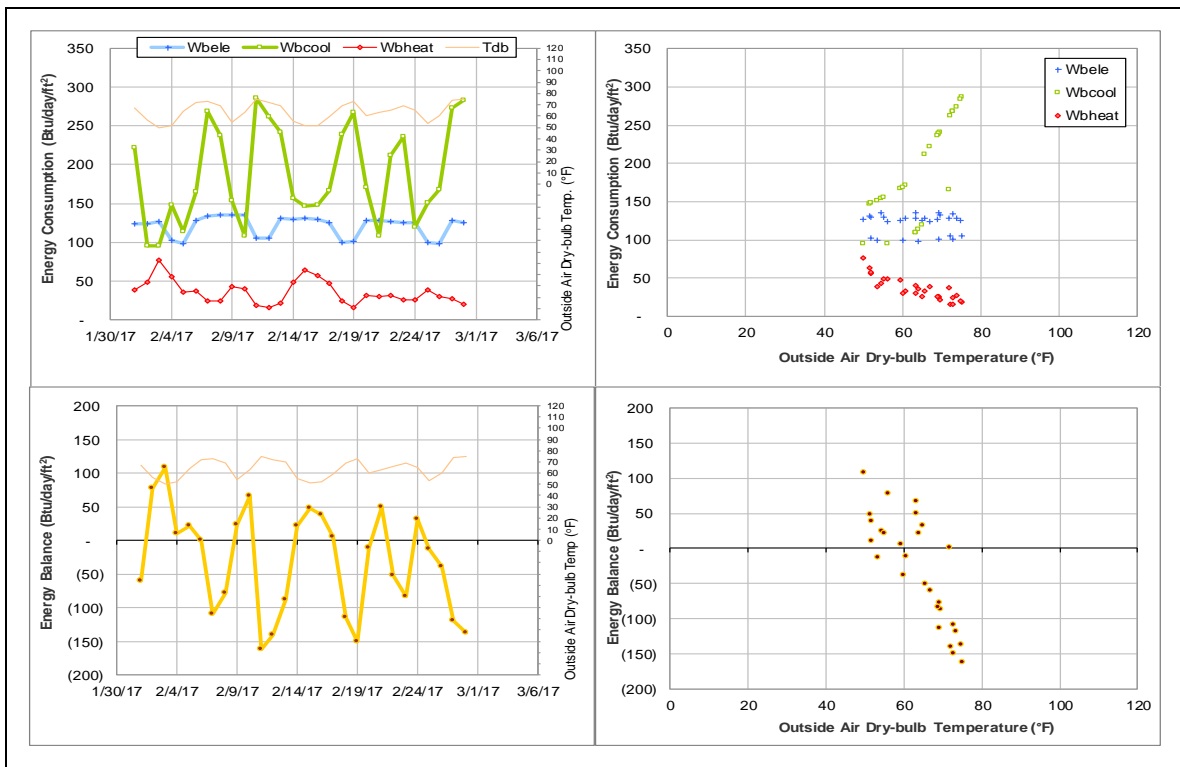
Explanatory Figure: 13 months energy balance plot with original data.



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Underwood Residence Hall (TAMU Bldg #394)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	002117	16	2/5/2017 – 2/14/2017 2/20/2017 2/24/2017 – 2/28/2017	Model
HHW	002121	16	2/5/2017 – 2/14/2017 2/20/2017 2/24/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption dropped for a short period.	2/5/2017 – 2/14/2017 2/20/2017 2/24/2017 – Ongoing
HHW	The consumption dropped for a short period.	2/5/2017 – 2/14/2017 2/20/2017 2/24/2017 – Ongoing

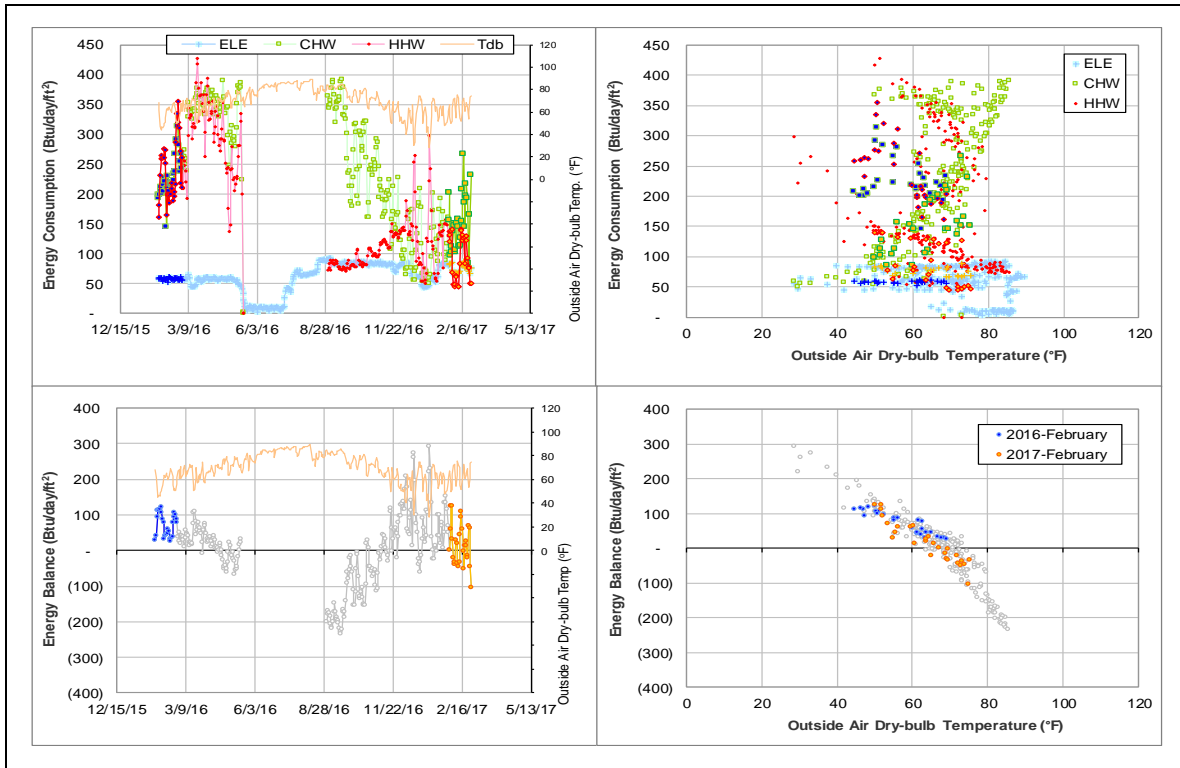
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	002117	2/5/2017 – 2/14/2017 2/20/2017 2/24/2017 – Ongoing	Flow rate	Low
HHW	002121	2/5/2017 – 2/14/2017 2/20/2017 2/24/2017 – Ongoing	Flow rate	Low

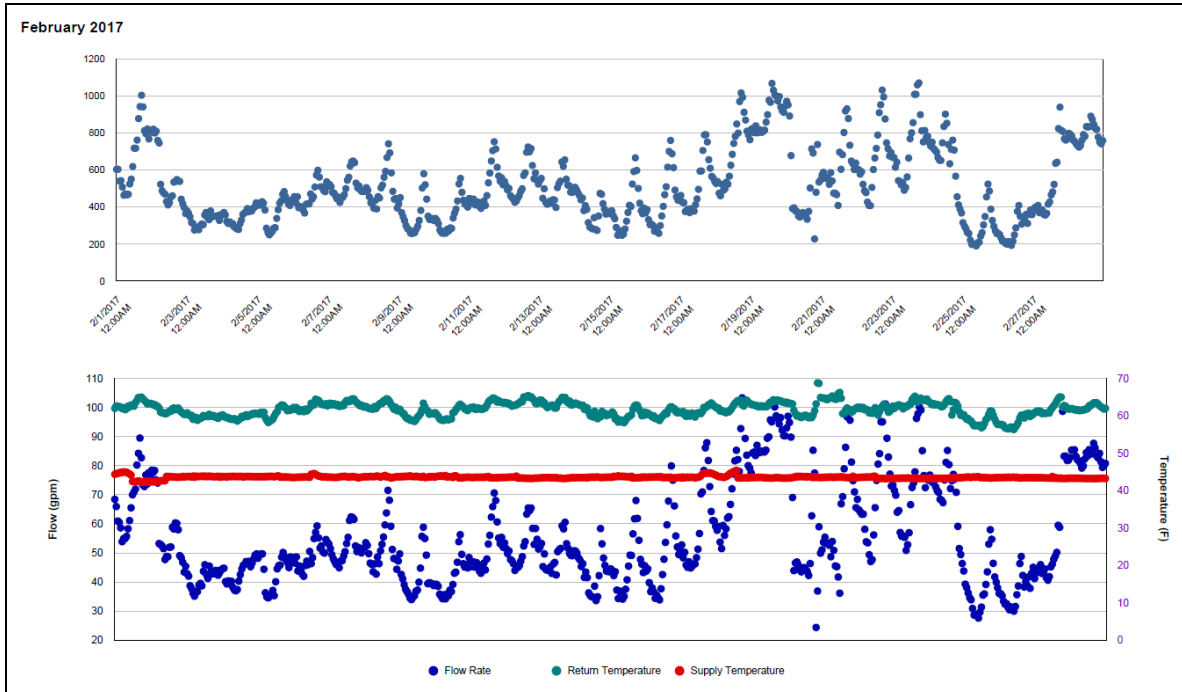
Quantitative descriptions and comments

Both CHW and HHW had significantly lower flow rate for several days in the month. HHW flow dropped from 20 – 24 gpm to 8 – 12 gpm. CHW flow dropped in response to HHW change. The days with low flow rate are estimated using a model.

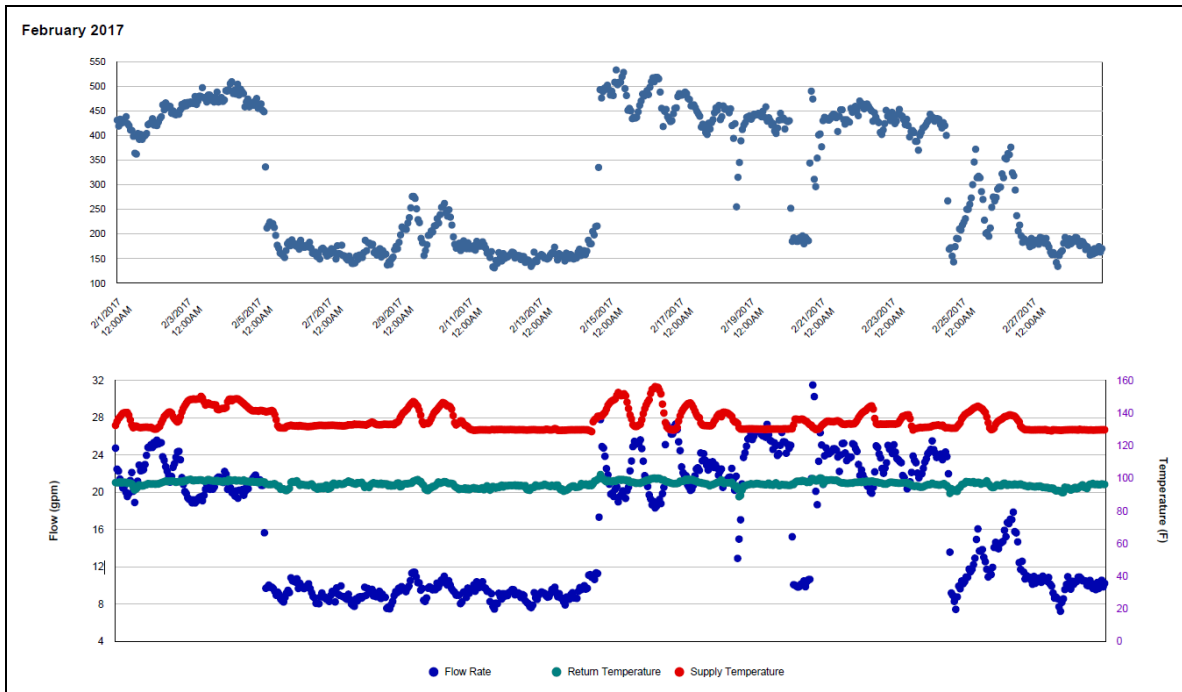
Explanatory Figure: 13 months energy balance plot with original data.



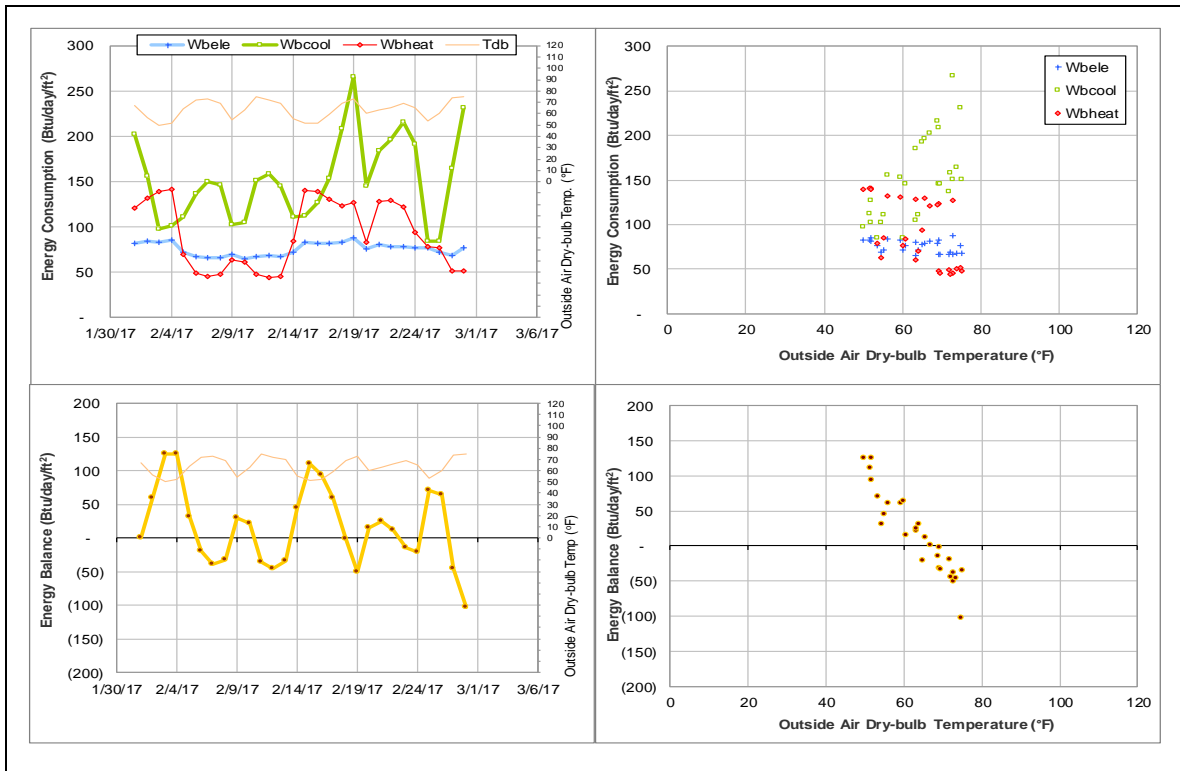
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during February 2017)



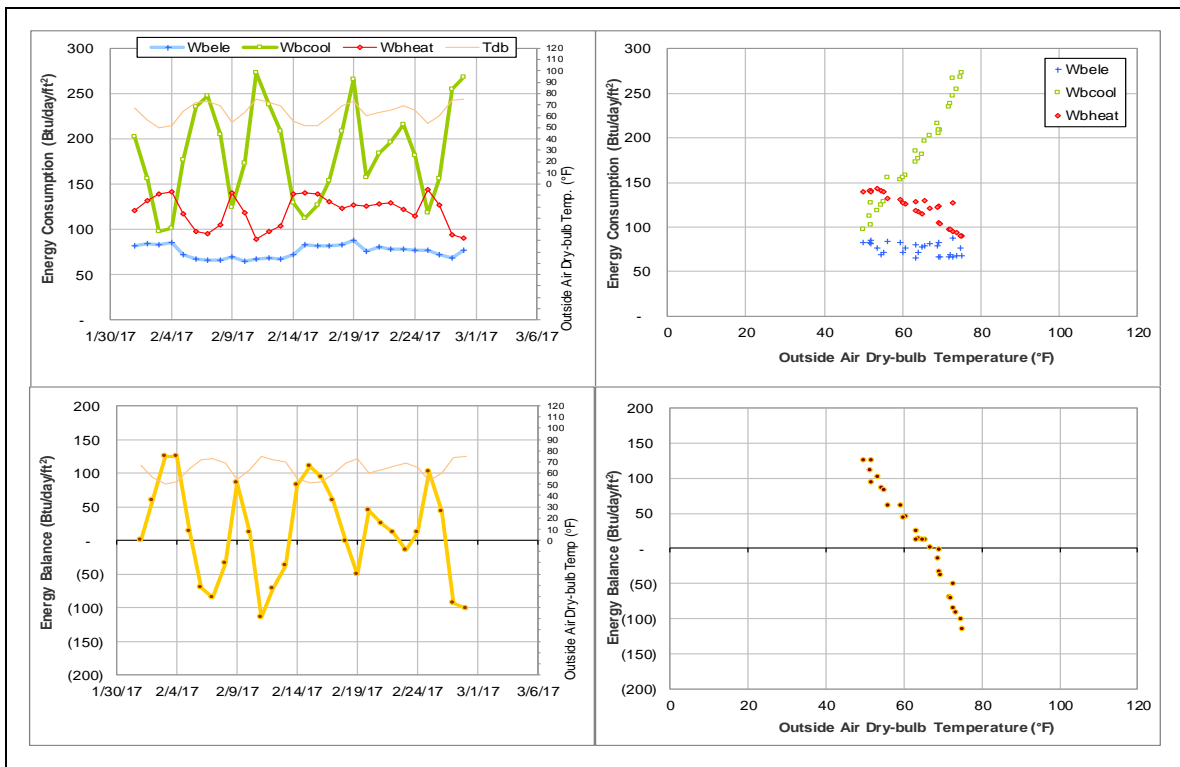
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW during February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Henderson Hall (TAMU Bldg #425)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	002607	7	2/4/2017 – 2/5/2017 2/23/2017 2/25/2017 – 2/28/2017	Model
HHW	002611	7	2/4/2017 – 2/5/2017 2/23/2017 2/25/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption dropped for a short period.	2/4/2017 – 2/5/2017 2/23/2017 2/25/2017 – 2/28/2017
HHW	The consumption dropped for a short period.	2/4/2017 – 2/5/2017 2/23/2017 2/25/2017 – 2/28/2017

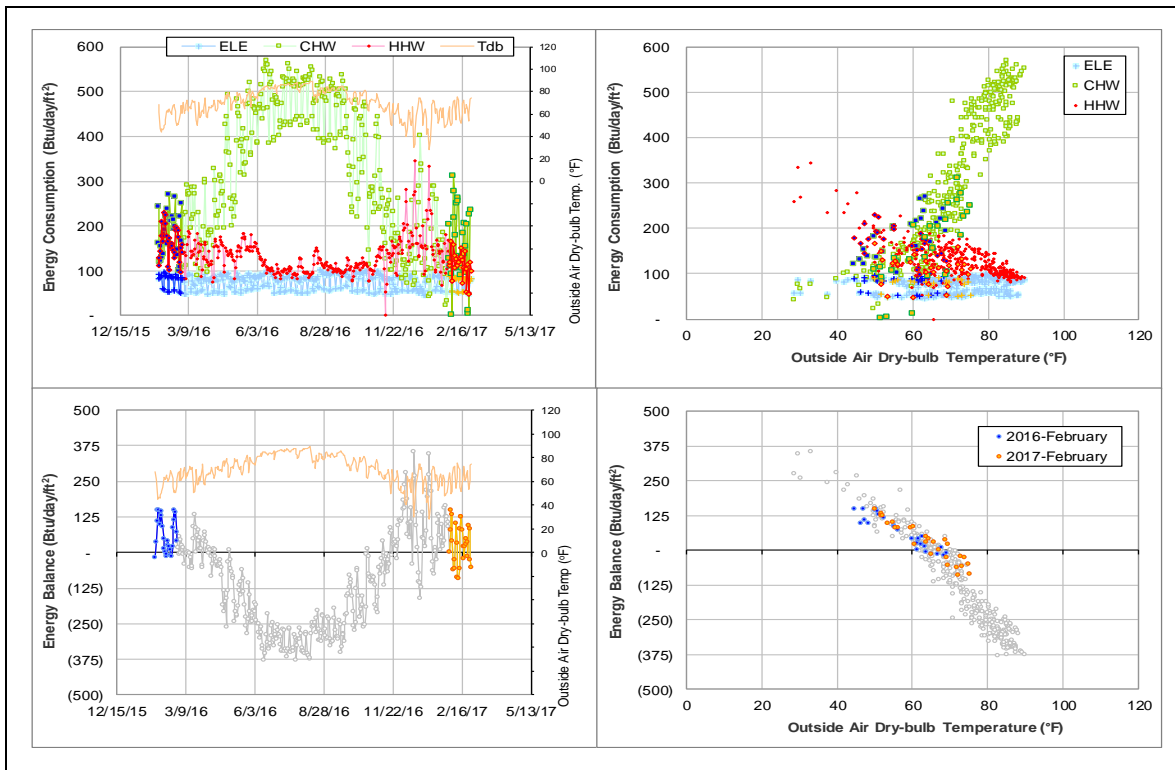
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	002607	2/4/2017 – 2/5/2017 2/23/2017 2/25/2017 – 2/28/2017	Flow rate	Zero
HHW	002611	2/4/2017 – 2/5/2017 2/23/2017 2/25/2017 – 2/28/2017	Flow rate	High
			Delta-T	Low

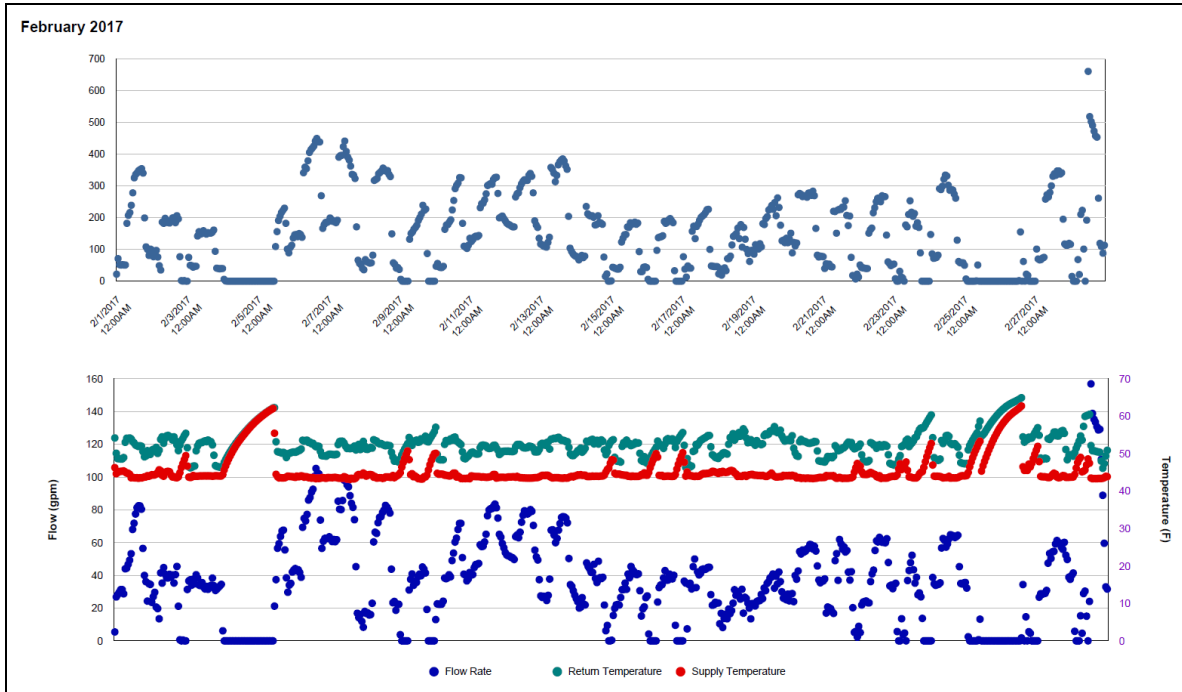
Quantitative descriptions and comments

CHW flow had zero values occasionally in the month. The temperature readings were approaching room temperature during hours of zero CHW flow, thus the readings are not suspected to be conspicuously faulty. HHW was also affected when CHW was abnormal. HHW had high flow but very low Delta-T on the same days and the consumption was lower on these days. The days with zero CHW flow rate are estimated using a model.

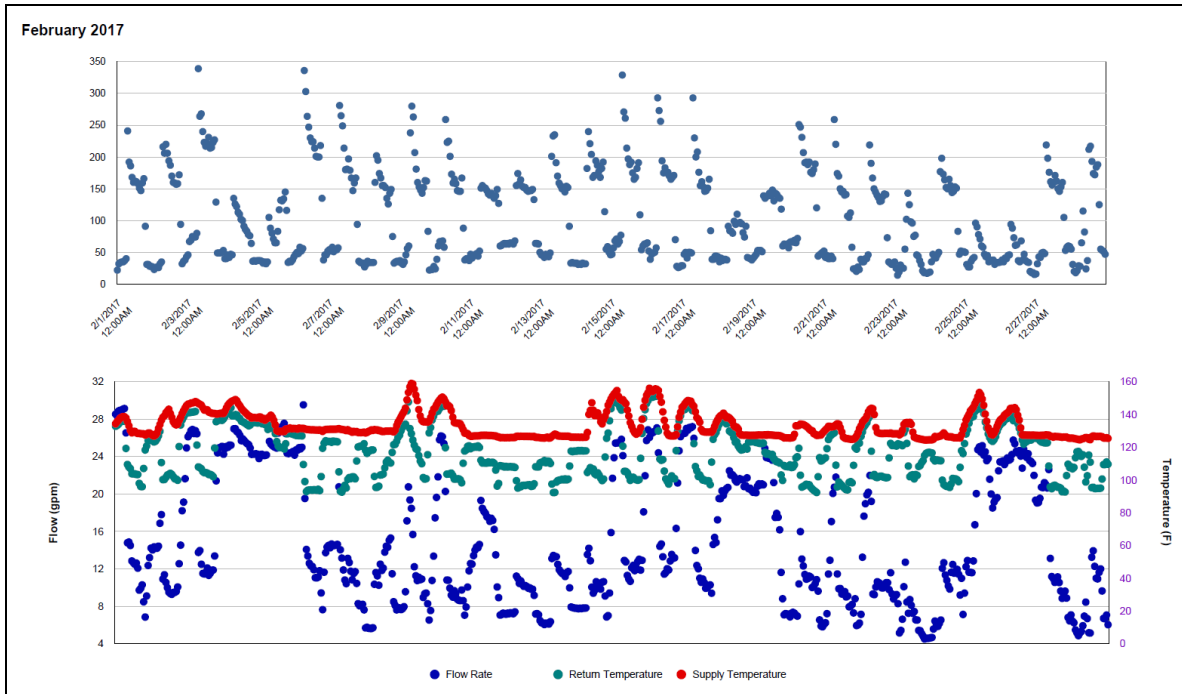
Explanatory Figure: 13 months energy balance plot with original data.



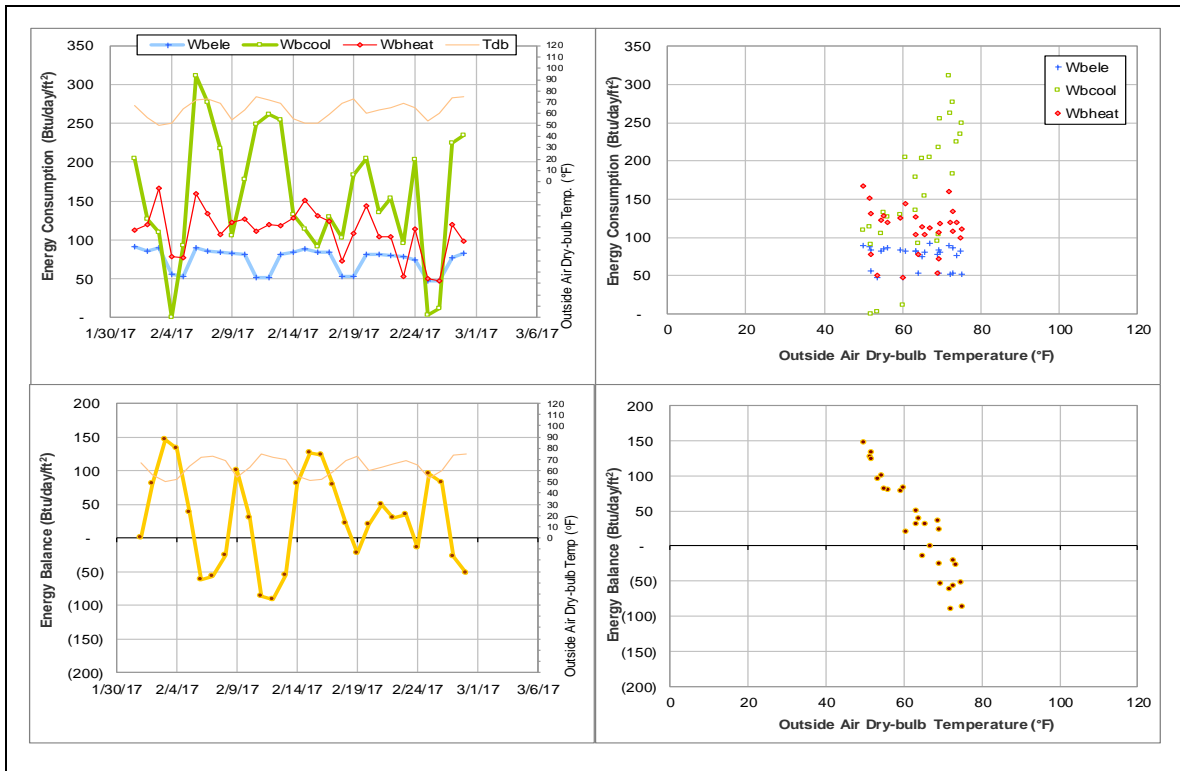
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during February 2017)



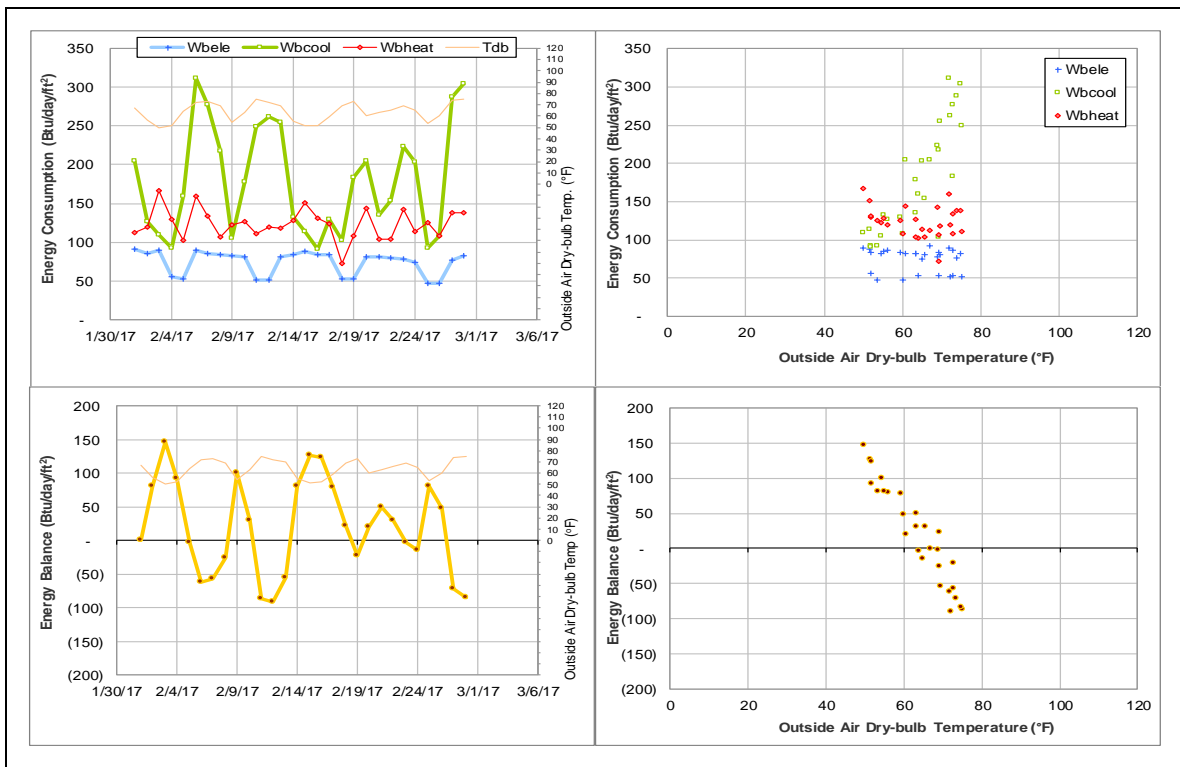
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW during February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Aston Residence Hall (TAMU Bldg #447)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	002474	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The metered values appear to be faulty.	11/18/2016 – Ongoing

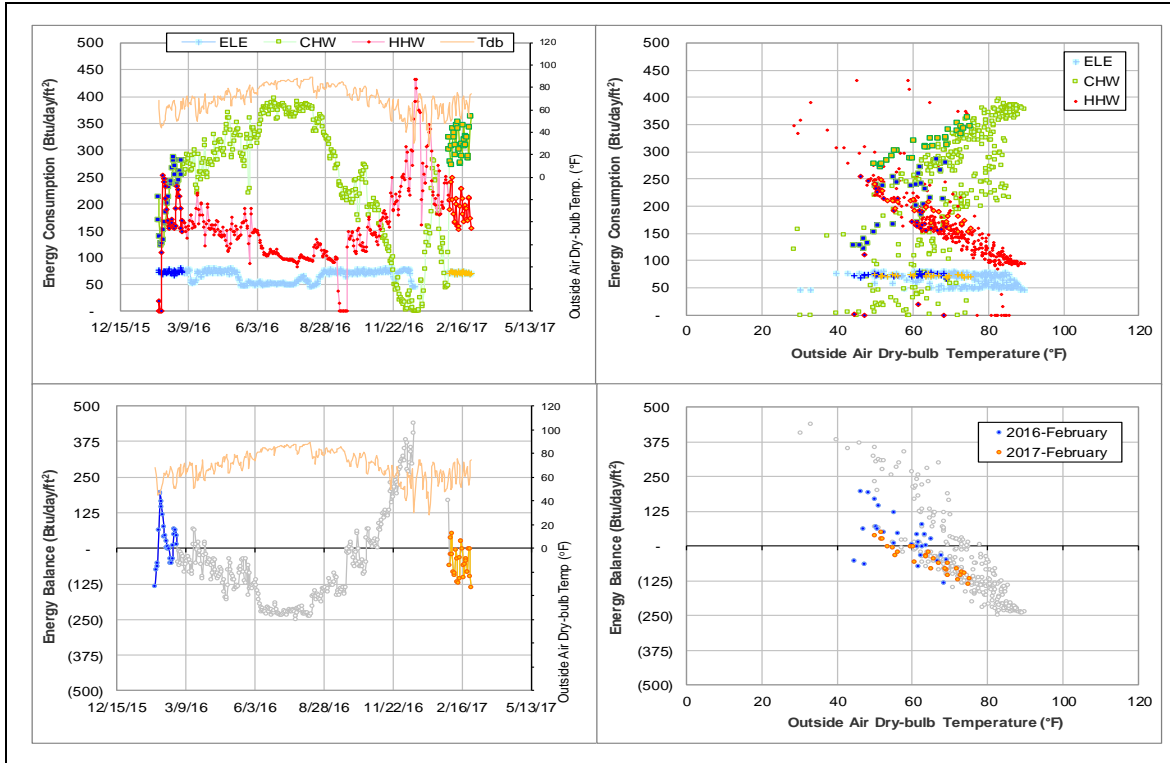
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	002474	11/18/2016 – 1/31/2017	Delta-T	Low and occasionally negative
		2/1/2017 – Ongoing	Delta-T	High

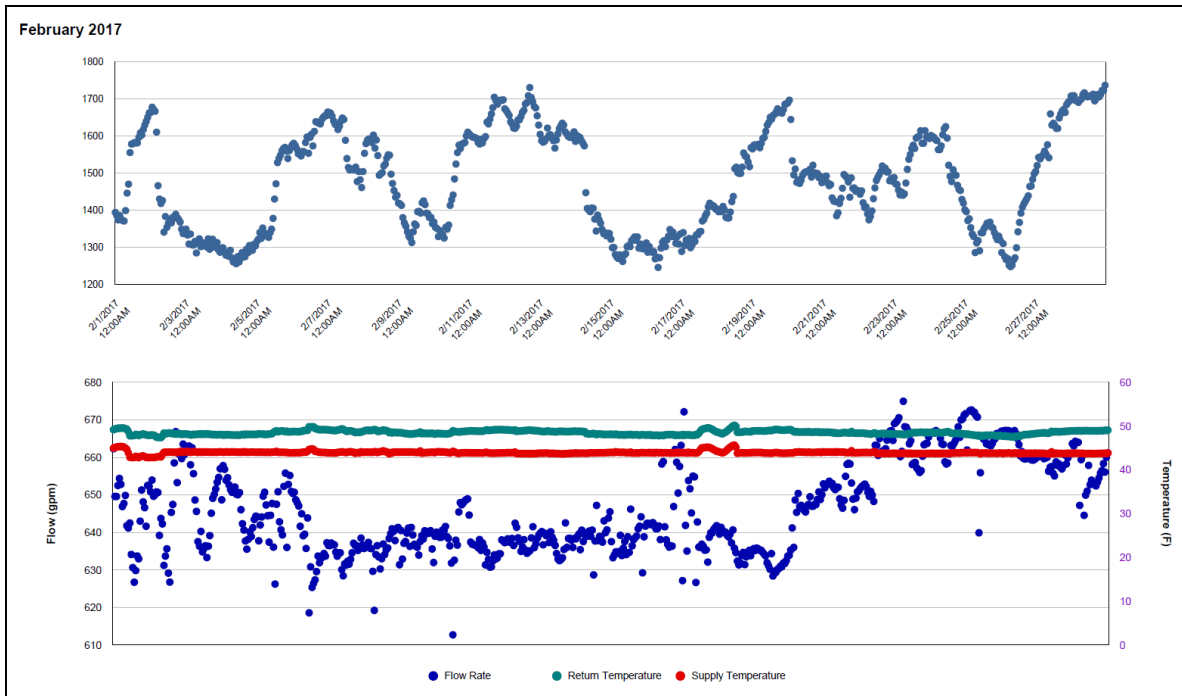
Quantitative descriptions and comments

Delta-T of CHW decreased significantly and consumption dropped to a very low level since 11/18/2016, and negative values of Delta-T appeared occasionally. Delta-T significantly increased on 1/31/2017 and the consumption went higher than the previous years. The readings may still be faulty but higher than normal instead of being negative. The whole month is estimated by a model.

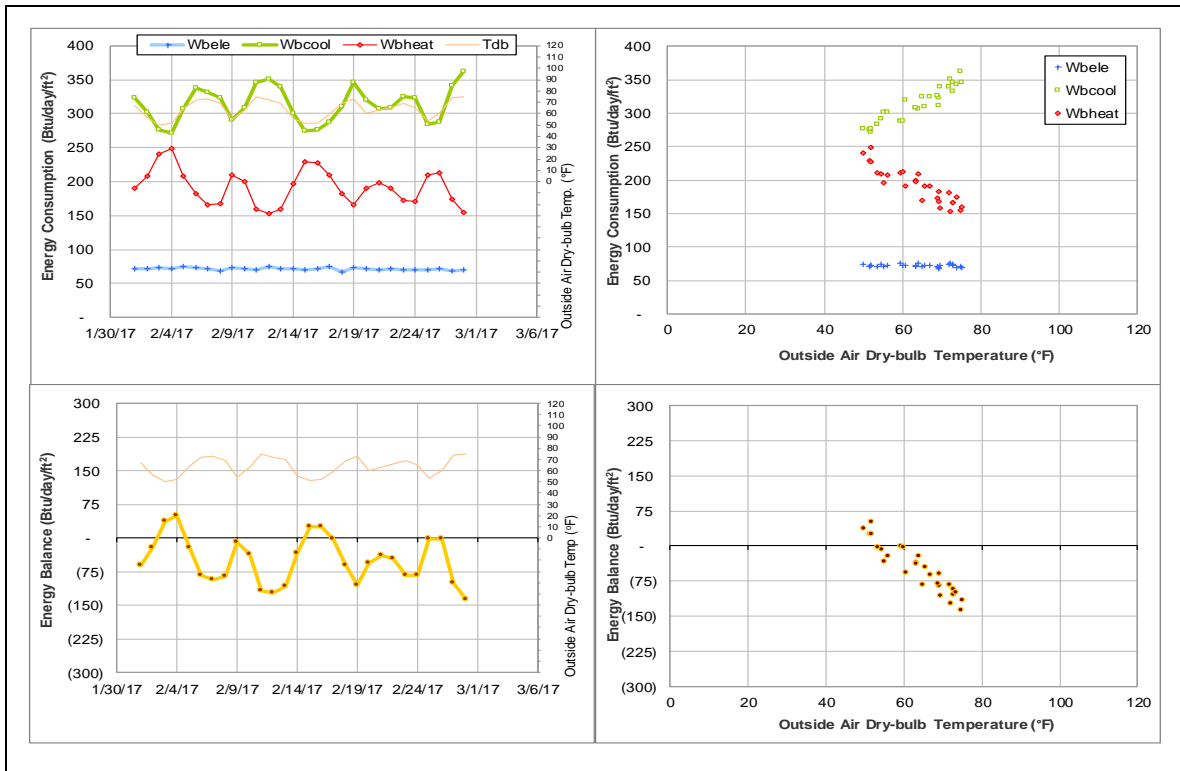
Explanatory Figure: 13 months energy balance plot with original data.



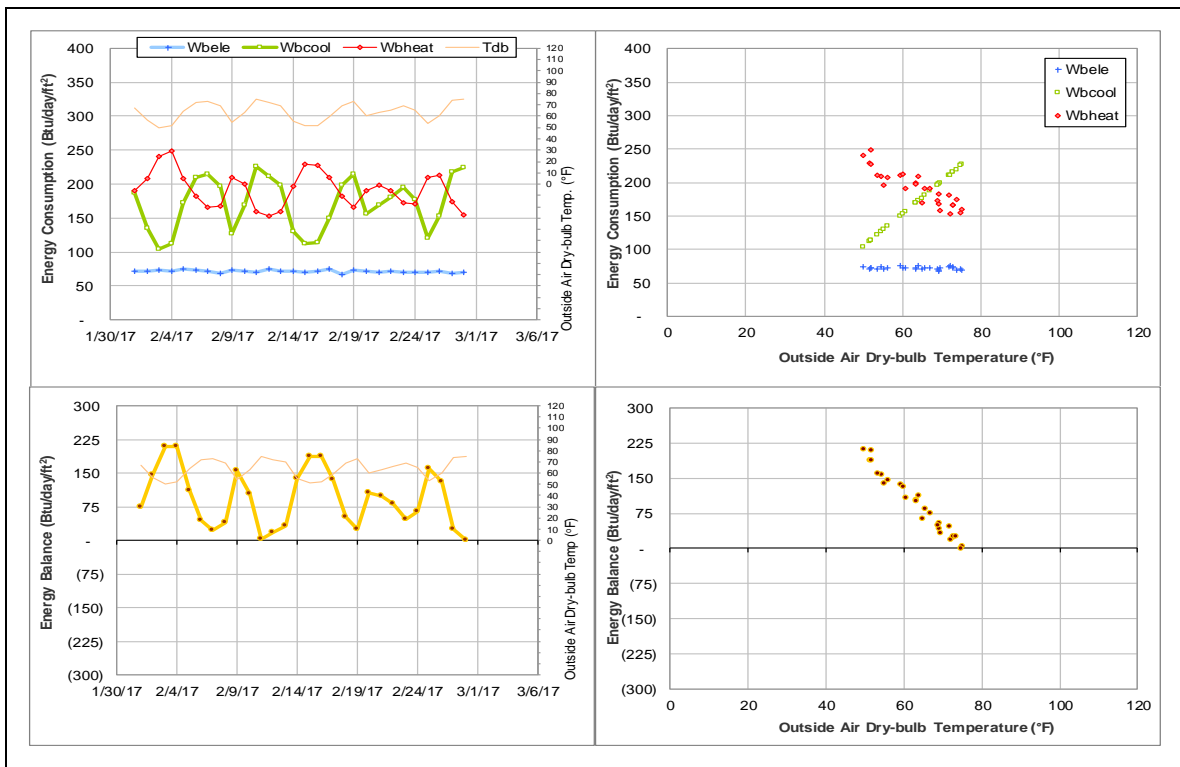
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Oceanography & Meteorology Building (TAMU Bldg #443)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	006388	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption level is higher than the level during the past year. The metered values appear to be faulty.	10/1/2016 – Ongoing

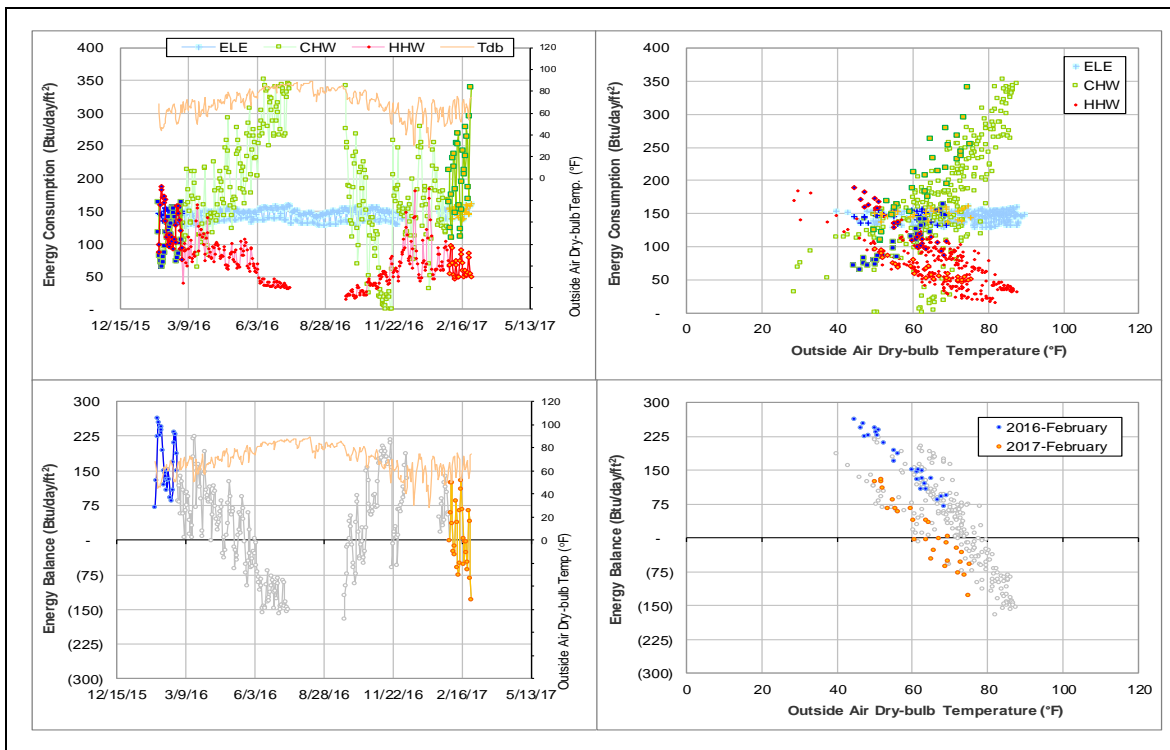
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	006388	10/21/2016 – 10/25/2016	Delta-T	Contains negative
		11/5/2016 – 11/22/2016		
		11/23/2016 – Ongoing	Delta-T	High

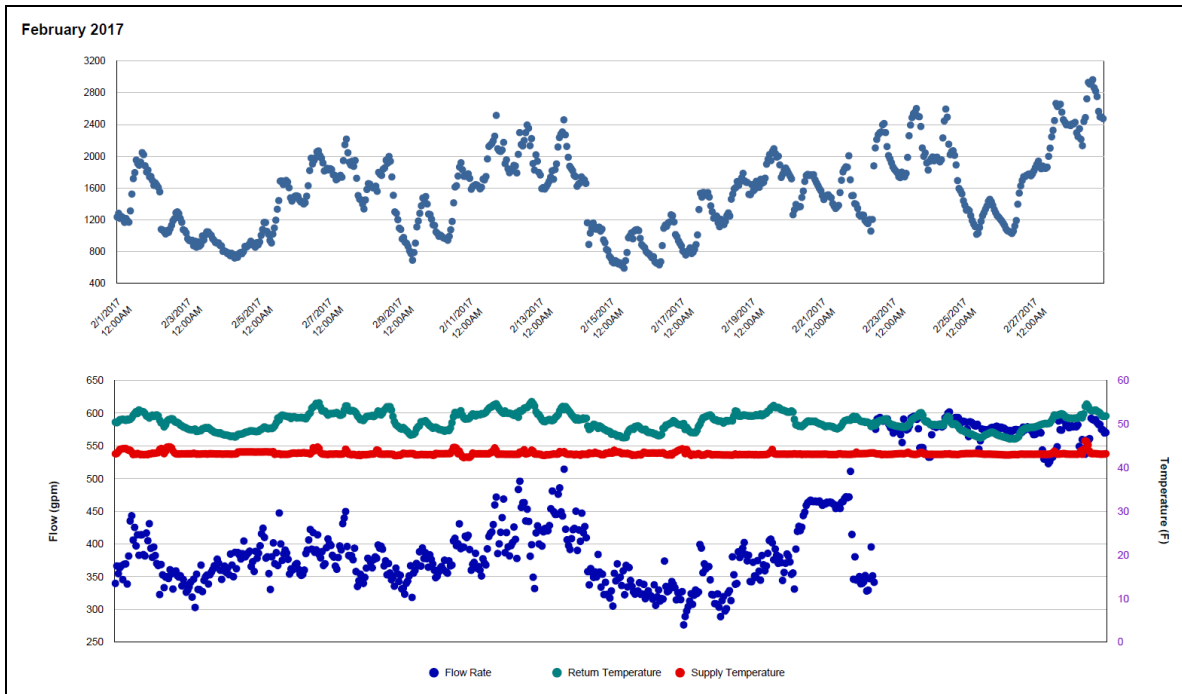
Quantitative descriptions and comments

CHW temperature readings contain negative values during 10/21 – 10/25/2016 and 11/5 – 11/22/2016. Starting 11/22/2016, Delta-T became positive but the consumption and energy balance are still off-pattern, and the consumption is appreciably higher than the past 5 years. The cross-point of EB has changed from 75°F to 65°F because of this increase. The whole month is estimated by a model. See also section II-3.

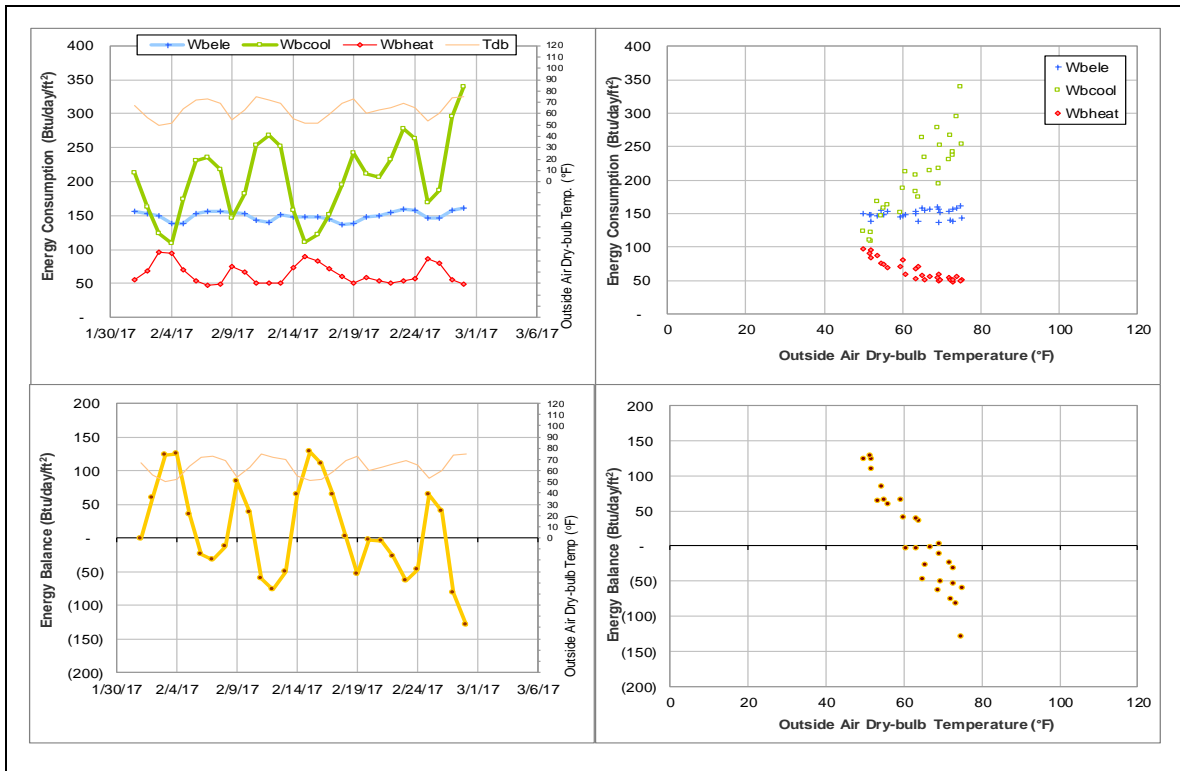
Explanatory Figure: 13 months energy balance plot with original data.



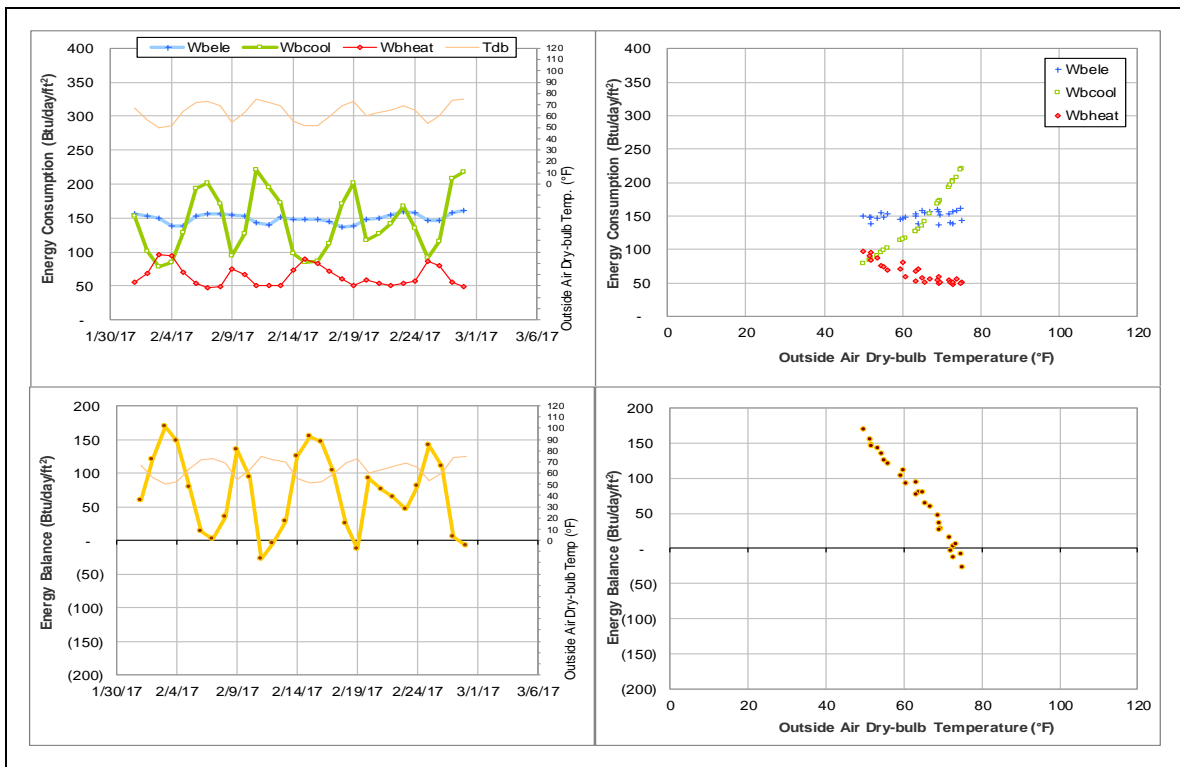
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Teague Research Center (TAMU Bldg #445)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	006411	28	2/1/2017 – 2/28/2017	Model
HHW	006415	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption level is higher than the level during the past year.	12/21/2016 – Ongoing
HHW	The consumption level is higher than the level during the past year. The consumption level has increased suddenly.	12/8/2016 – Ongoing

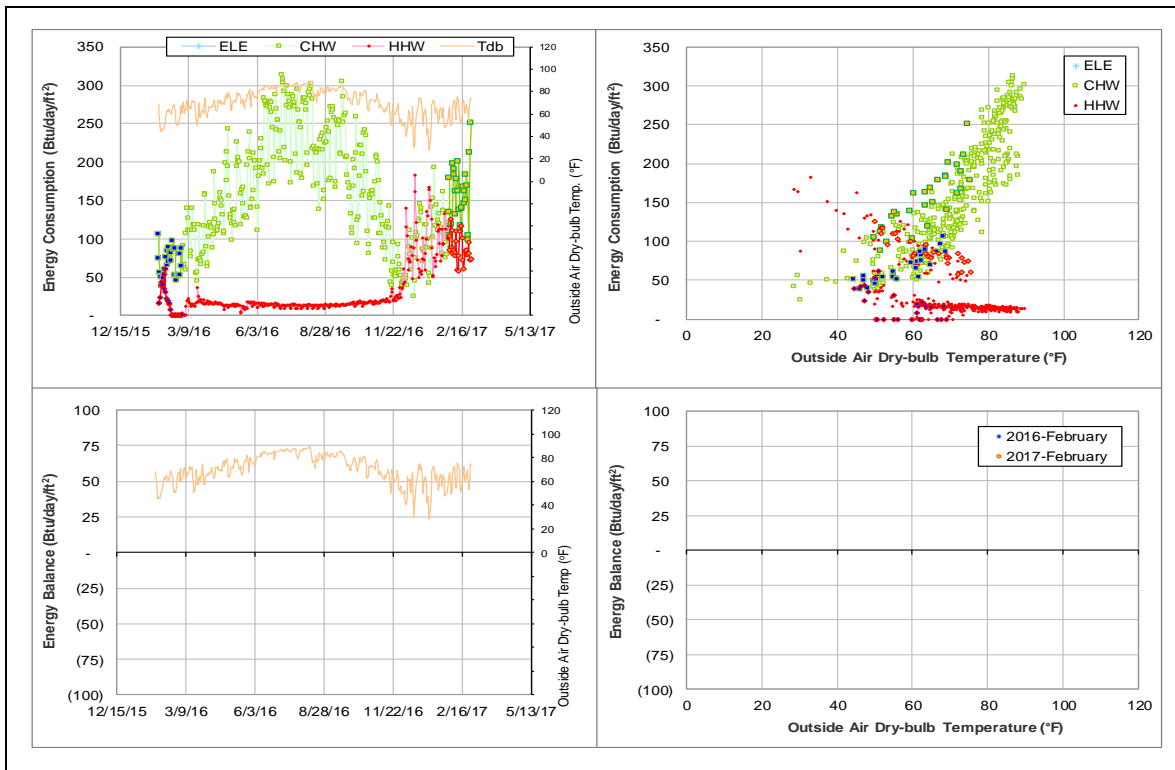
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	006411	12/21/2016 – Ongoing	Delta-T and Flow Rate	High
HHW	006415	12/8/2016 – Ongoing	Delta-T and Flow Rate	High

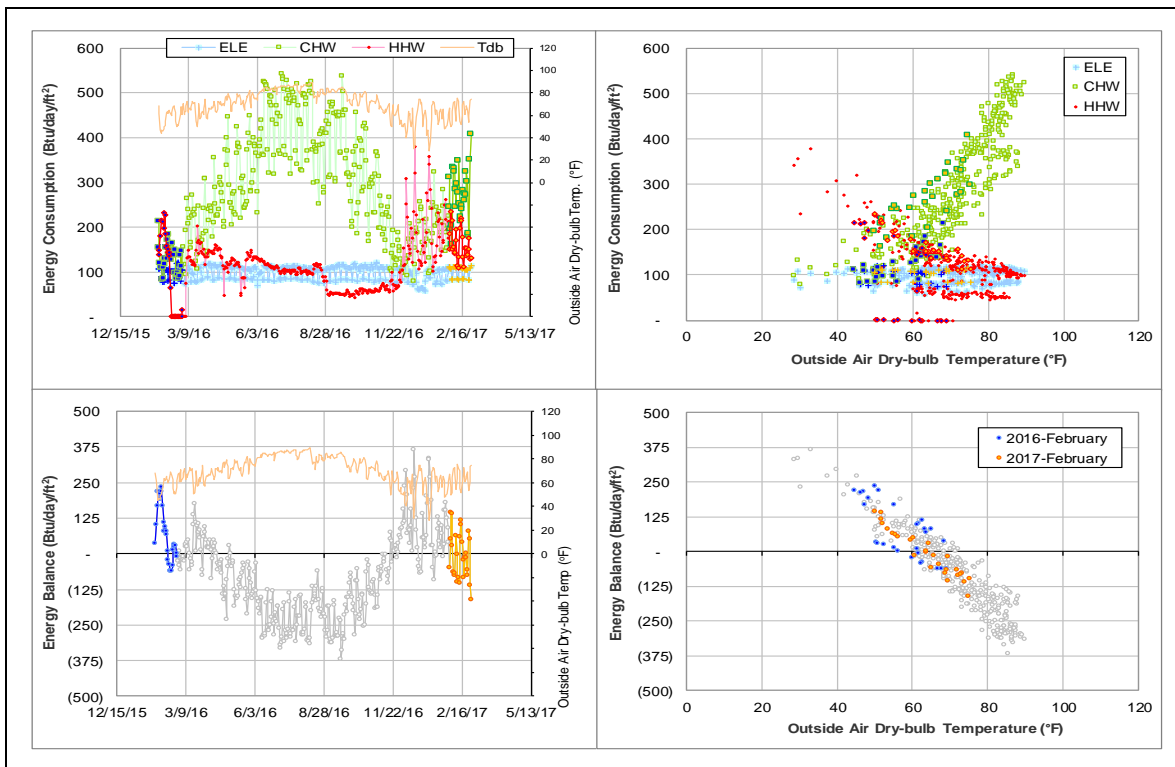
Quantitative descriptions and comments

CHW had an increase in flow rate from around 15 gpm to 80 gpm level in the end of December 2016. An increase of Delta-T followed on 1/4/2017 and pulled CHW consumption up gradually to a level higher than the previous year. Delta-T kept unstable throughout the month. HHW had an increase in both flow rate (from 15 gpm to 30 gpm in December 2016) and Delta-T causing an increase of consumption and brought scatter to the data. These days are estimated by a model. See also section II-3.

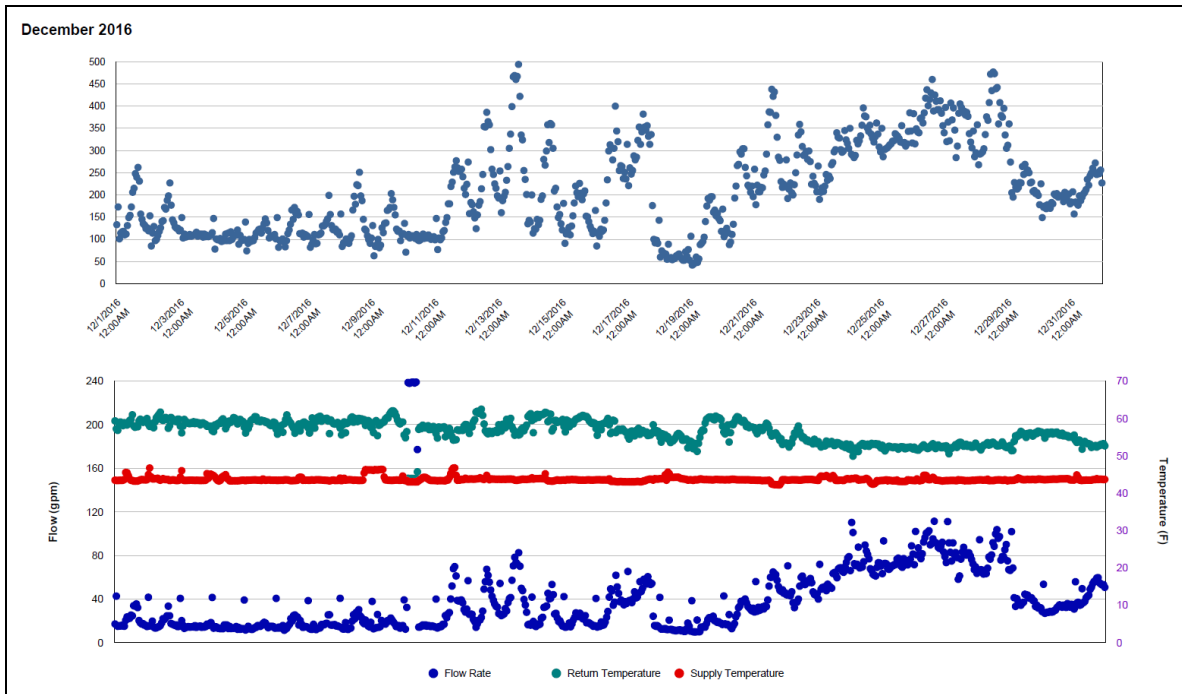
Explanatory Figure: 13 months energy balance plot with original data for #445 only



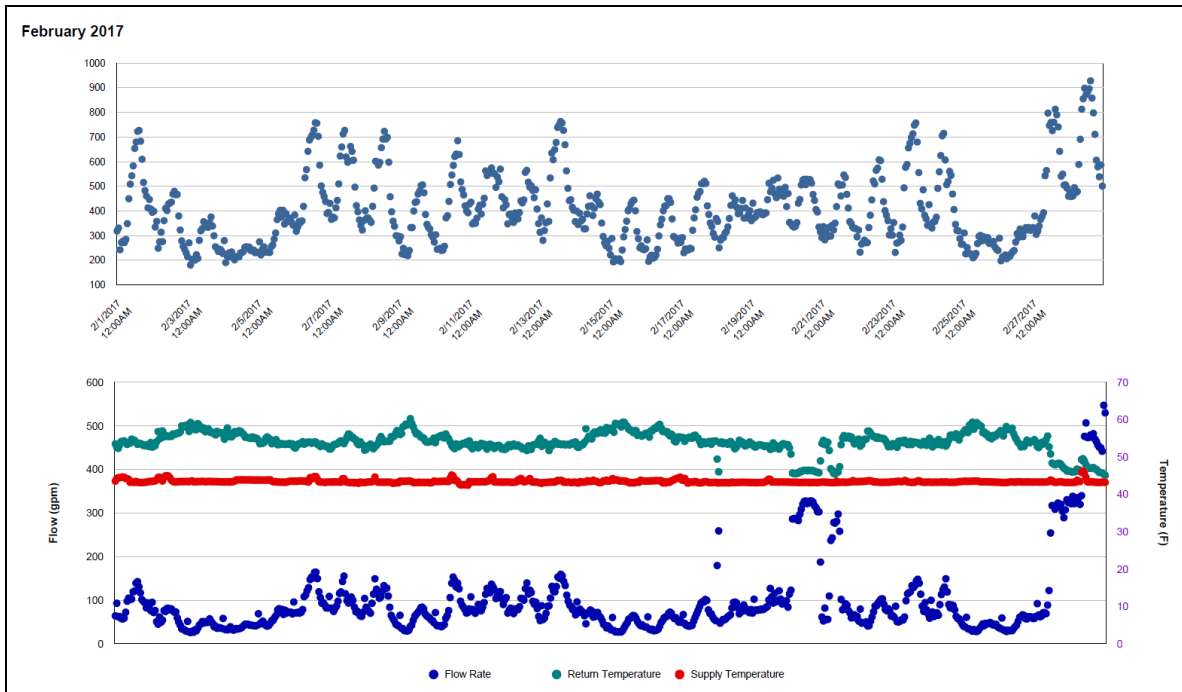
Explanatory Figure: 13 months energy balance plot with original data for total of #445 and #517



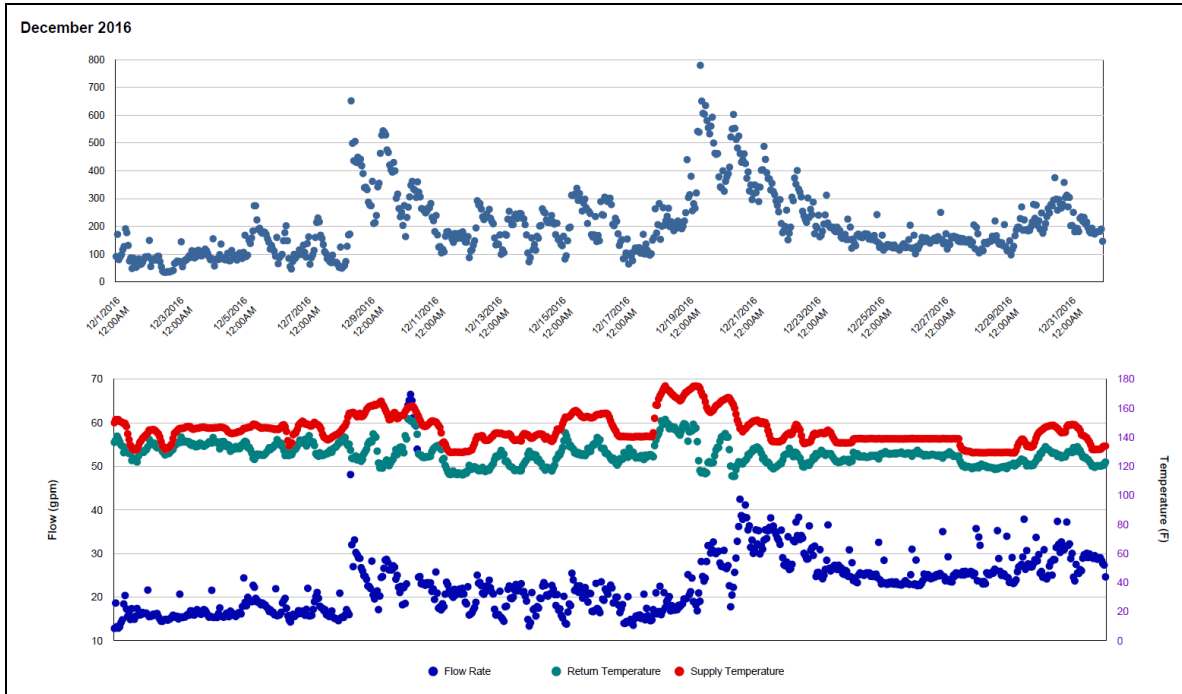
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during December 2016)



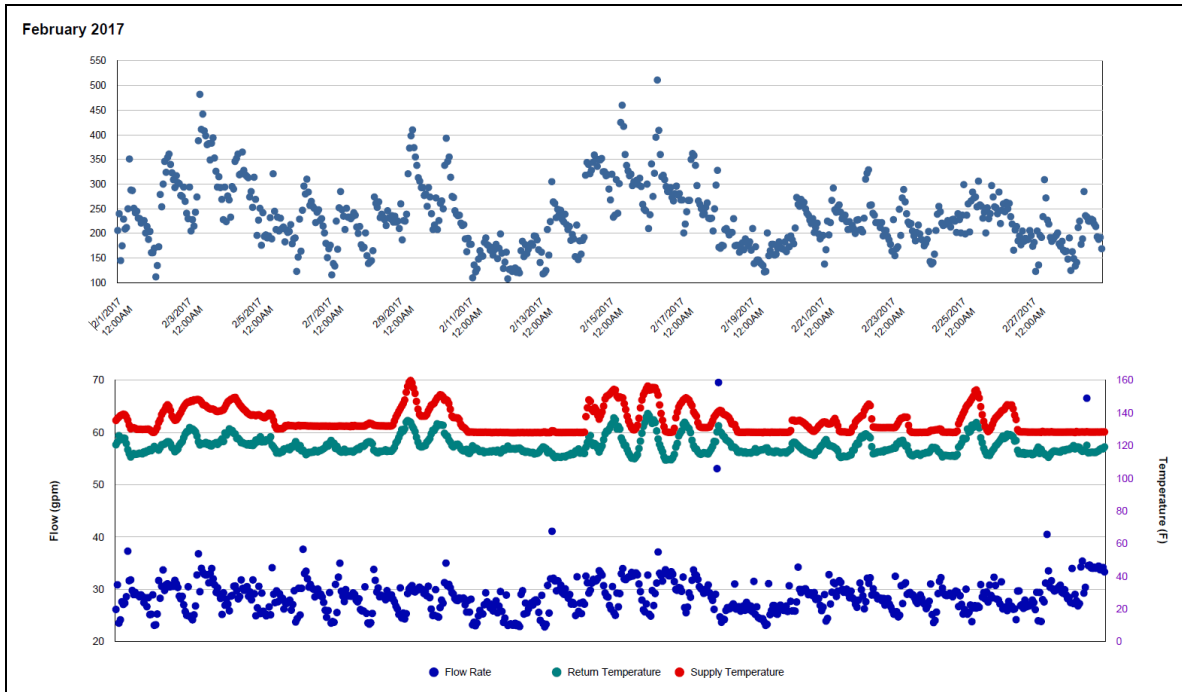
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during February 2017)



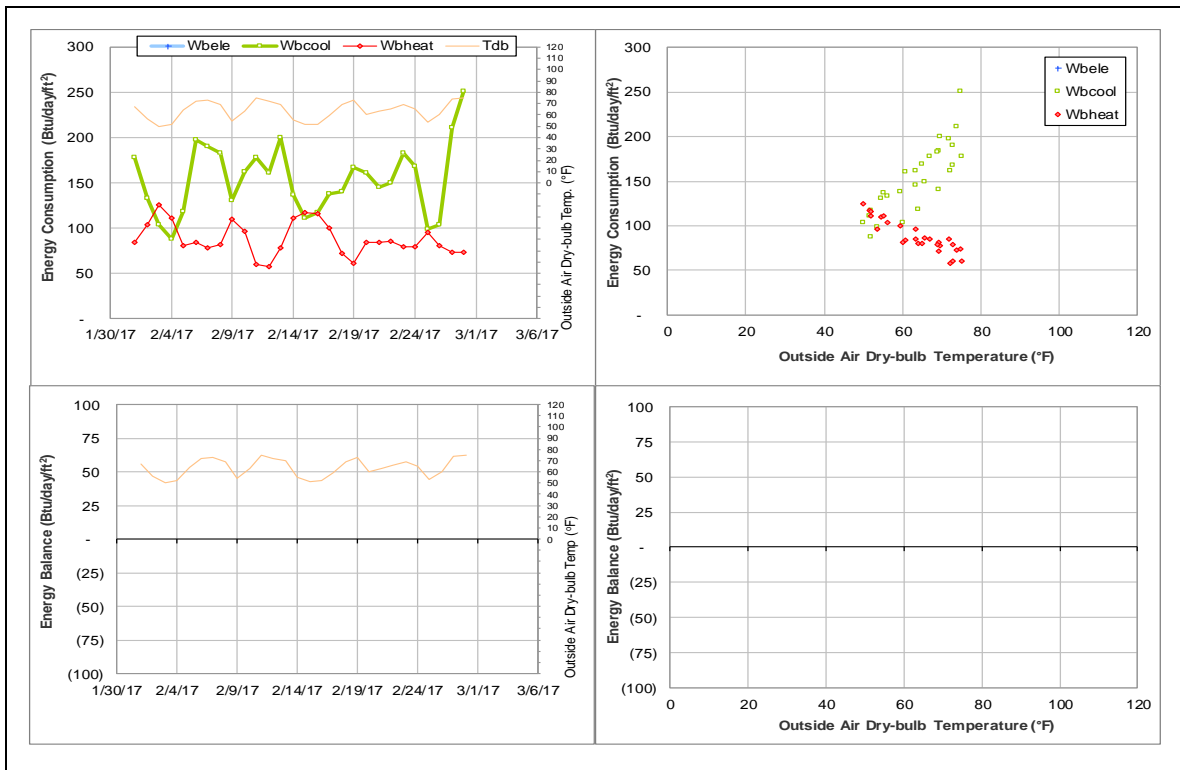
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW during December 2016)



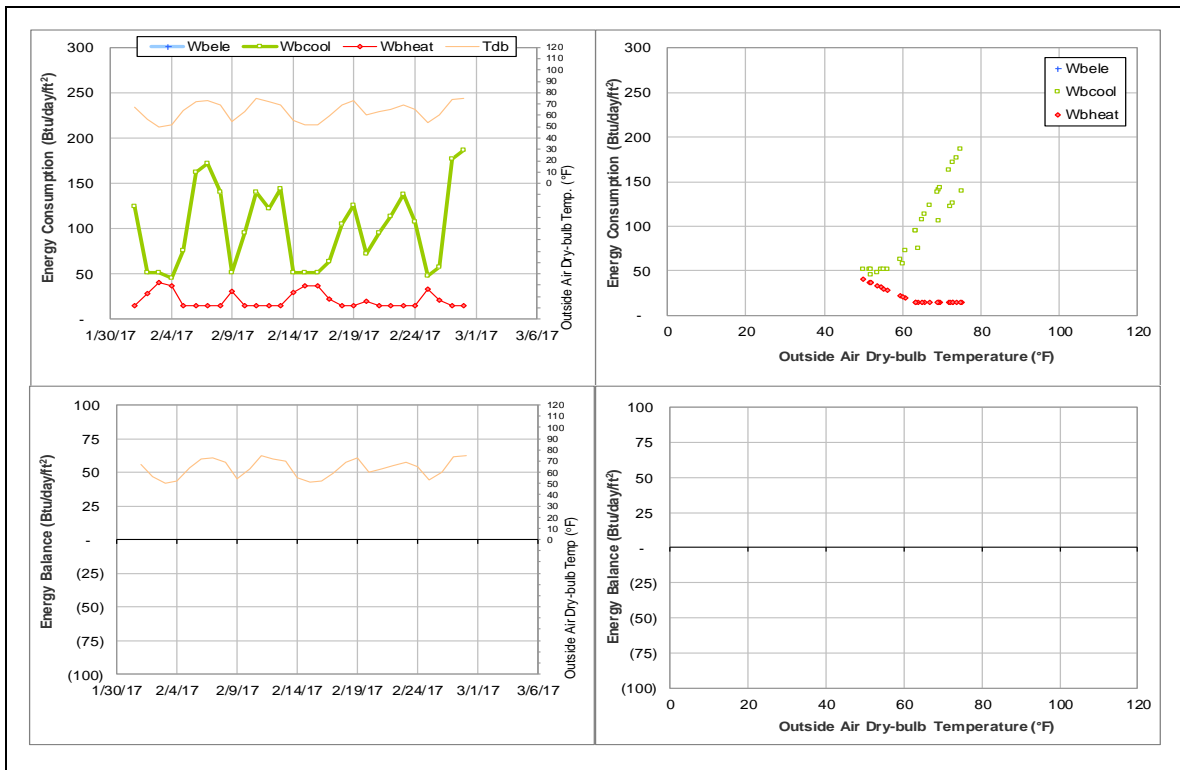
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW during February 2017)



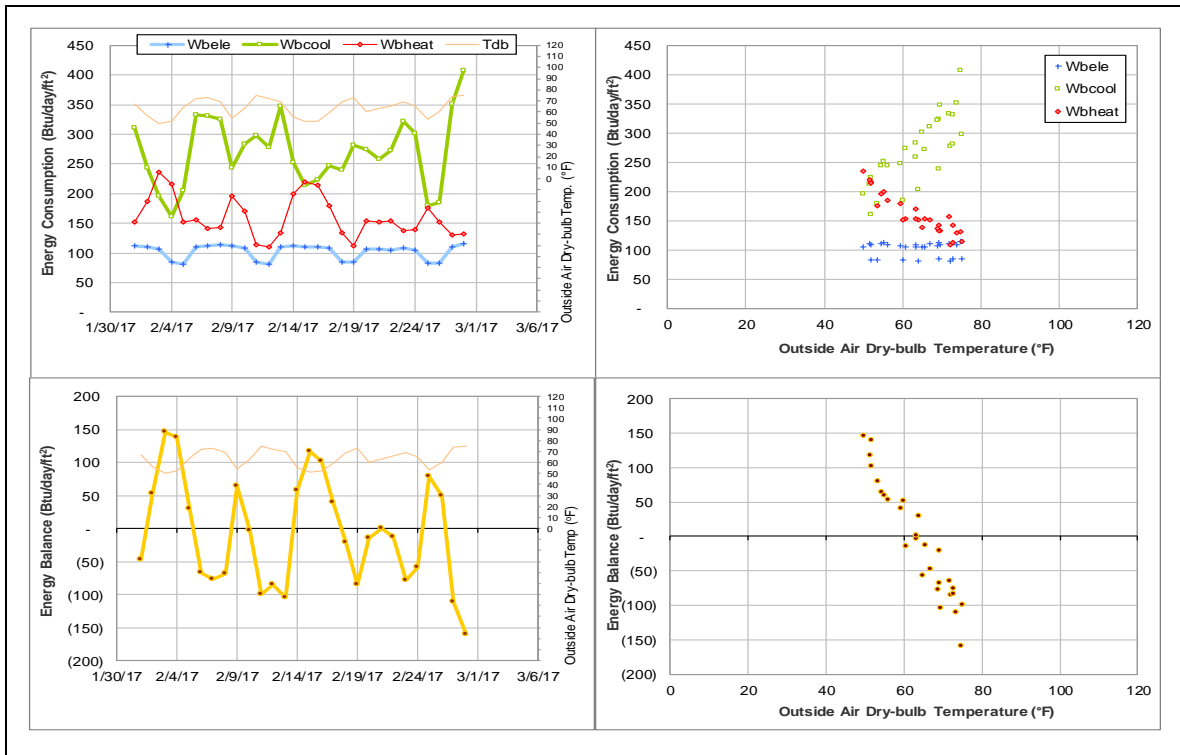
Energy balance plot using the original data for the month of analysis for #445 only



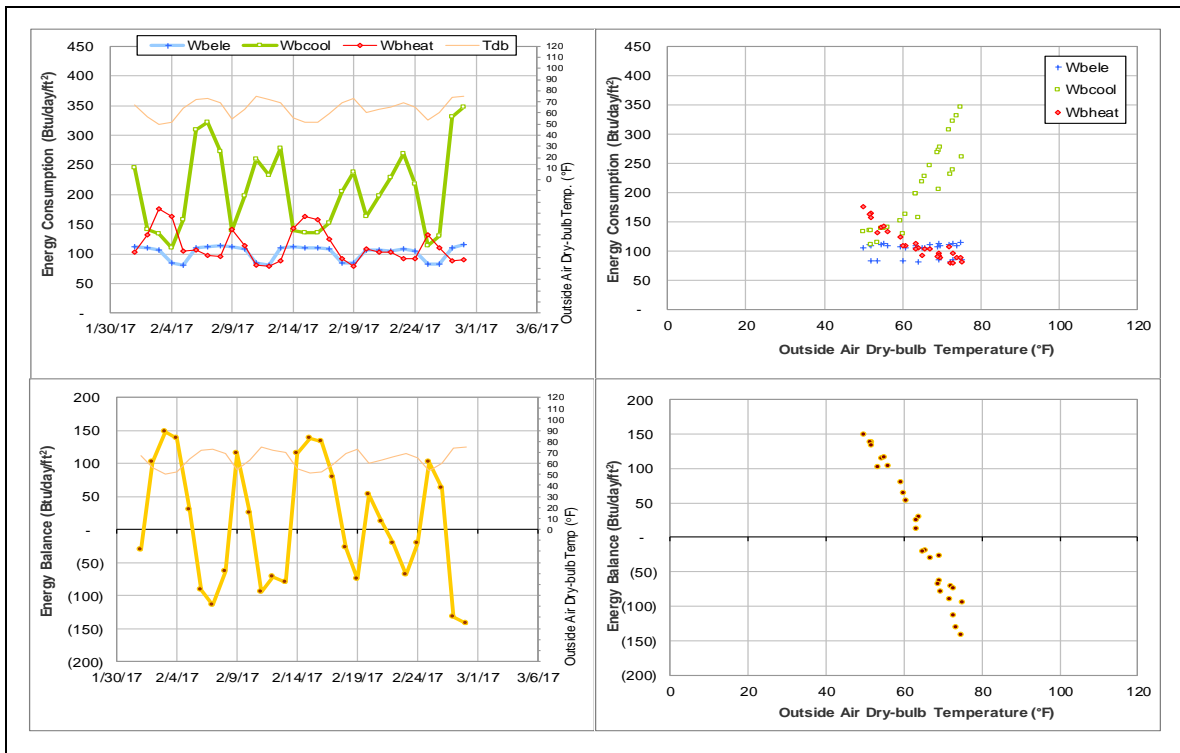
Energy balance plot using the estimated data for the month of analysis for #445 only



Energy balance plot using the original data for the month of analysis for total of #445 and #517



Energy balance plot using the estimated data for the month of analysis for total of #445 and #517



DPC Annex (TAMU Bldg #517)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	006563	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption level is higher than the level during the past year.	1/1/2017 – Ongoing

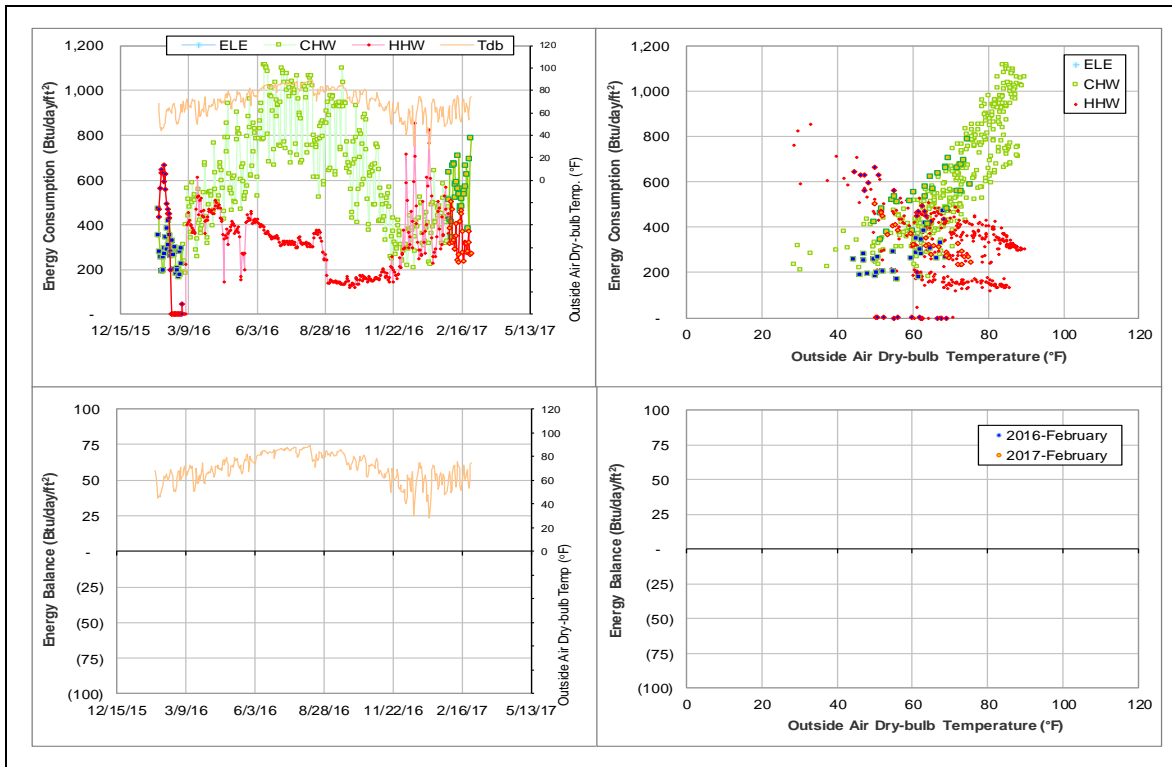
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	006563	1/1/2017 – Ongoing	Delta-T	High

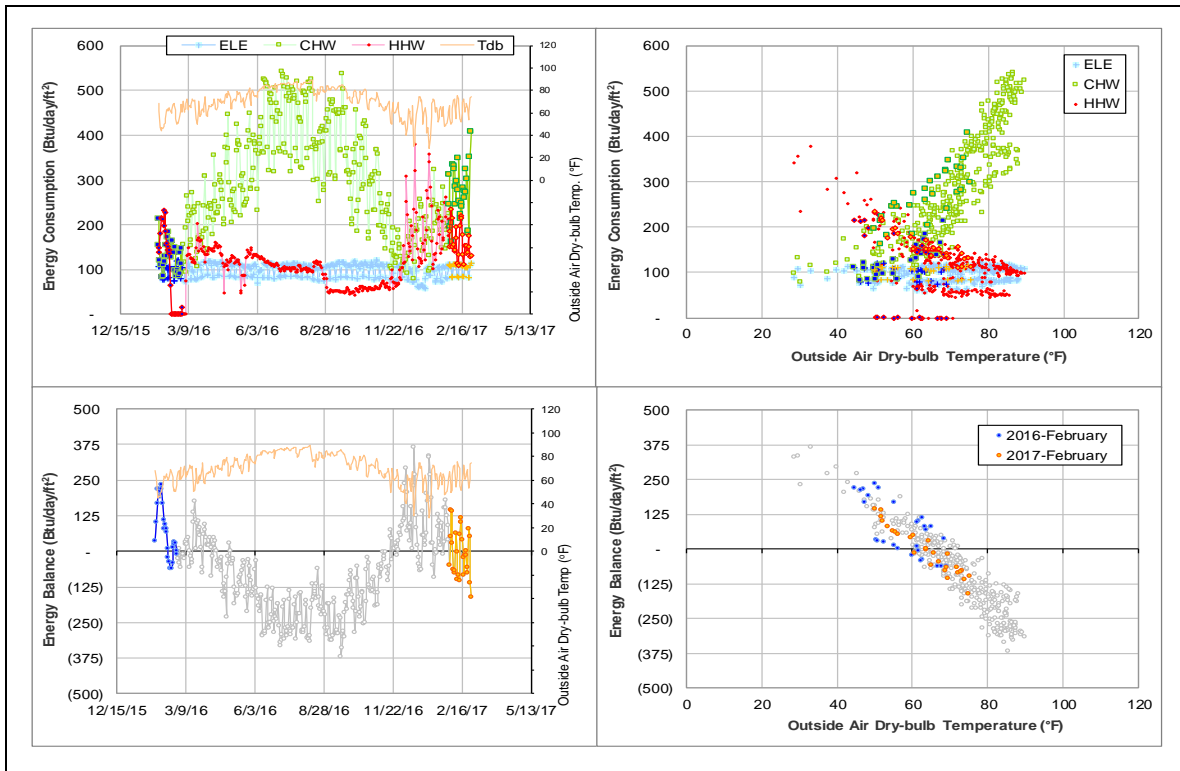
Quantitative descriptions and comments

CHW consumption is 150 to 200 Btu/day/ft² higher than the previous year. Delta-T is higher but the difference is not conspicuous. See also section II-3.

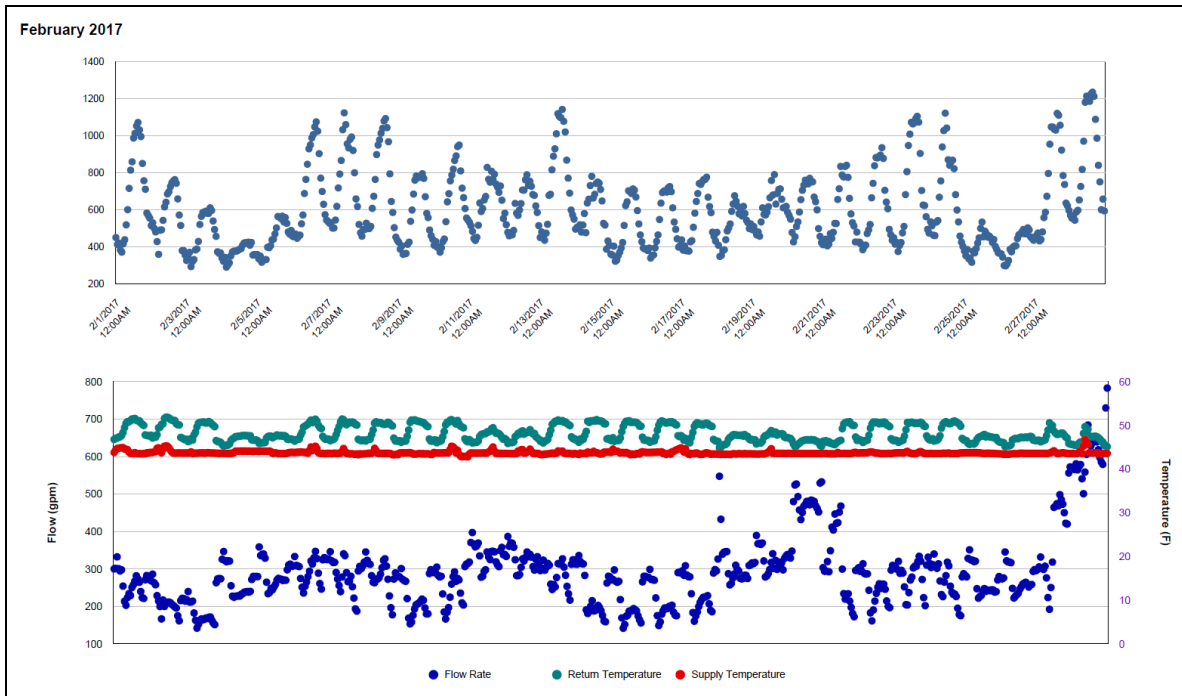
Explanatory Figure: 13 months energy balance plot with original data for #517 only



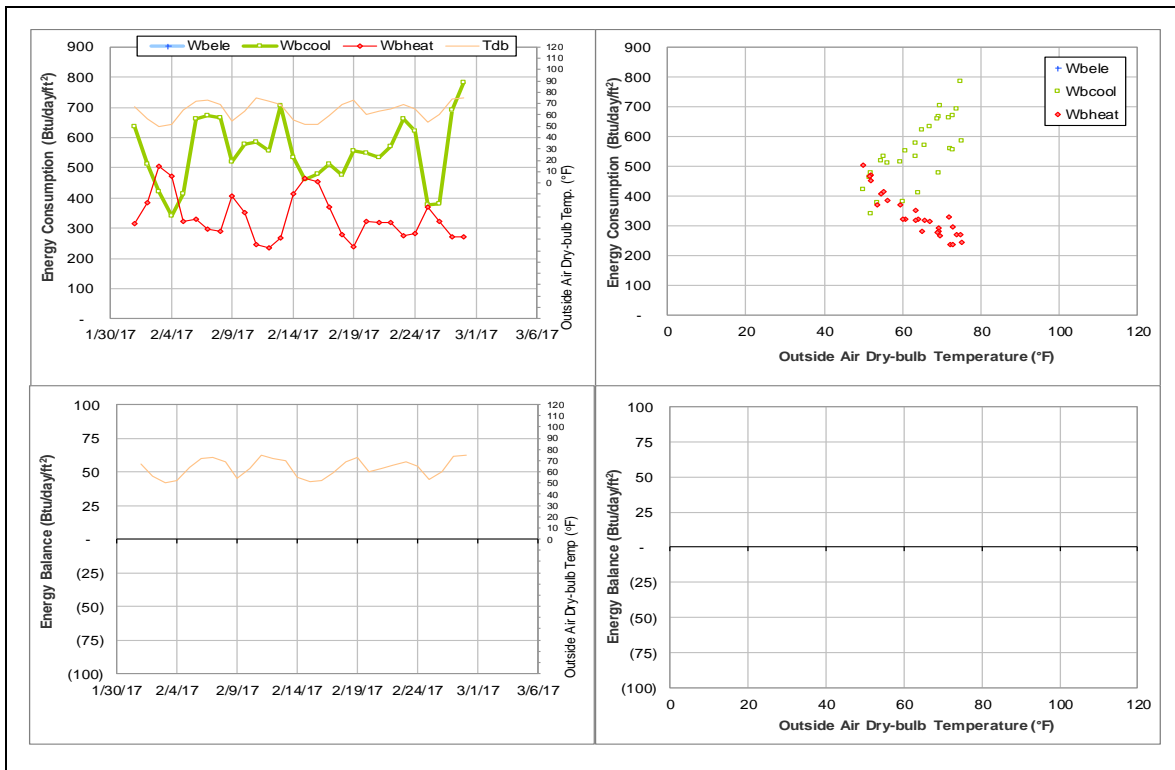
Explanatory Figure: 13 months energy balance plot with original data for total of #445 and #517



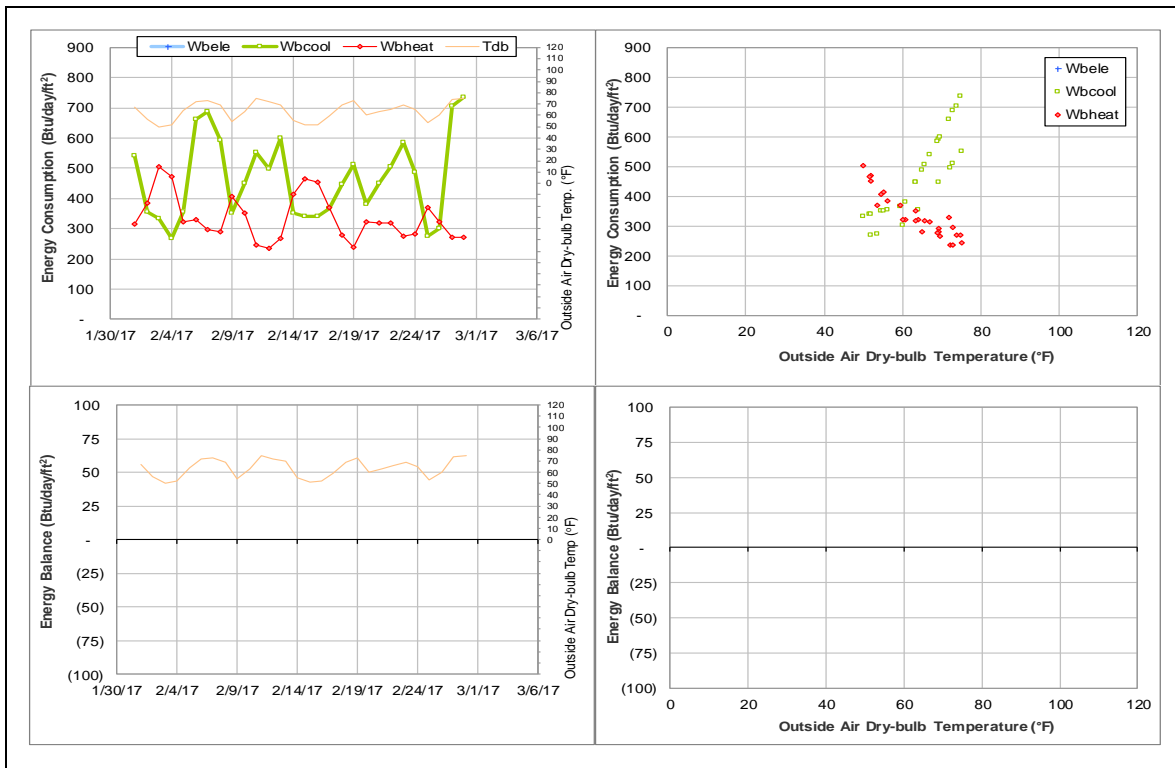
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during February 2017)



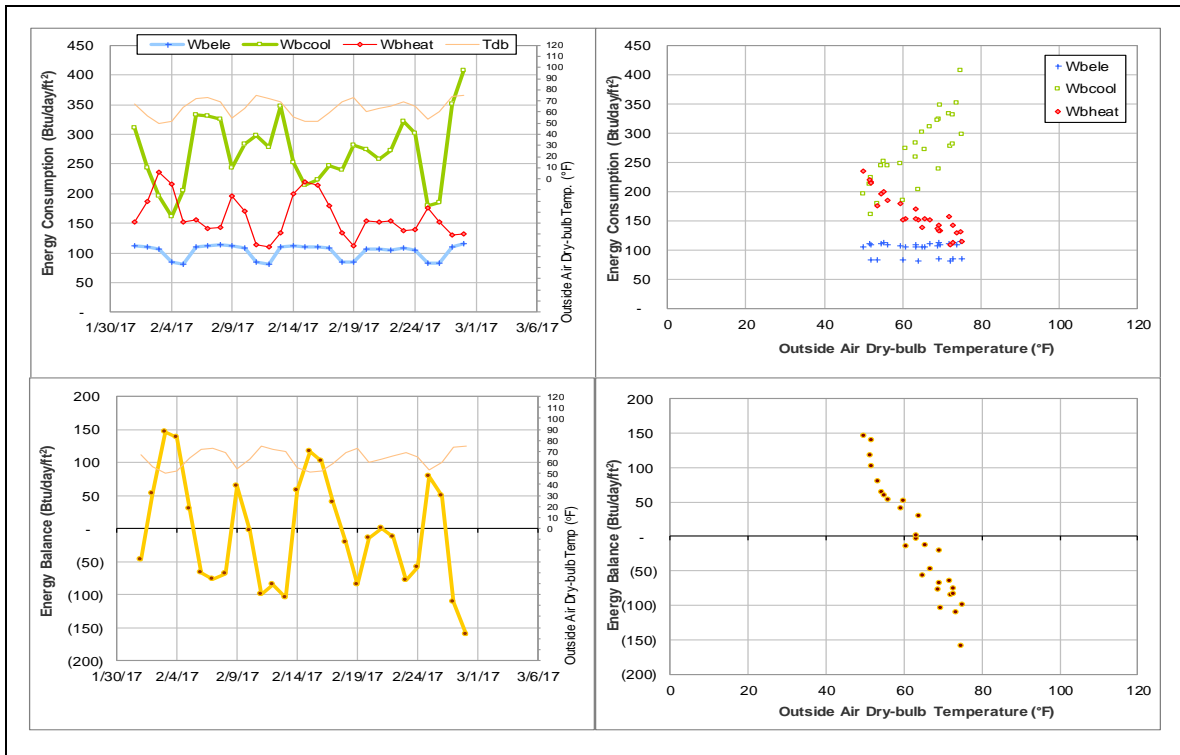
Energy balance plot using the original data for the month of analysis for #517 only



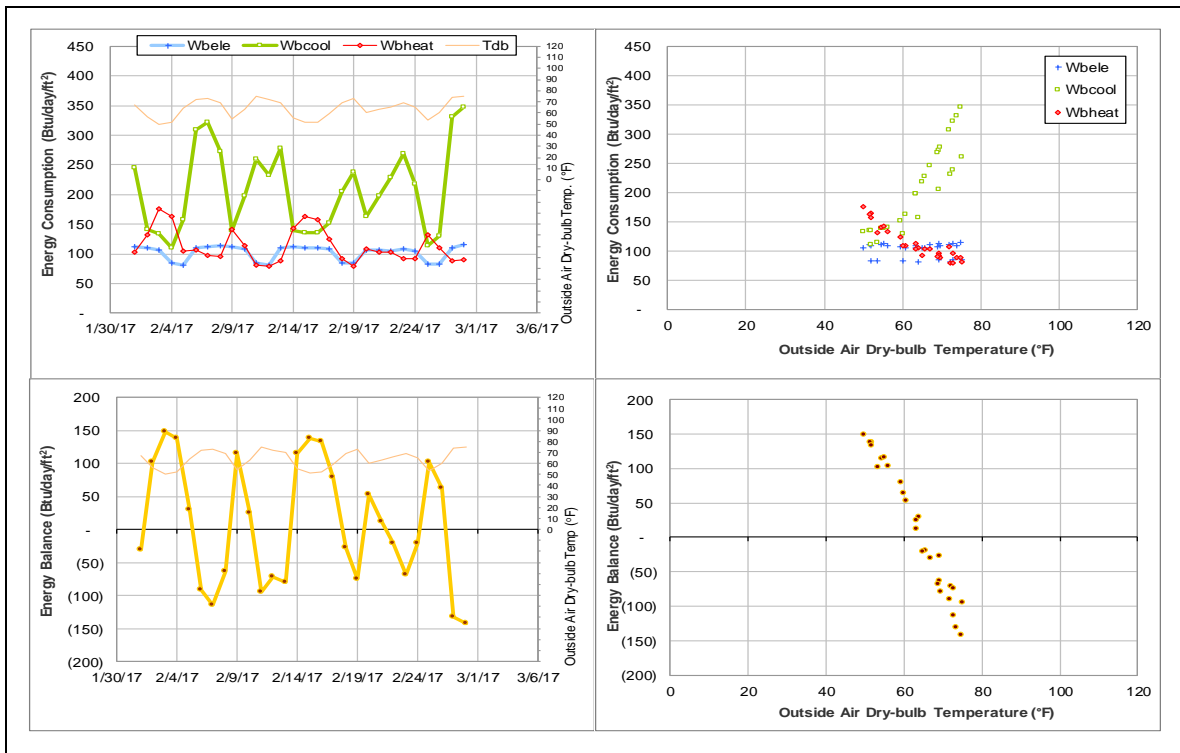
Energy balance plot using the estimated data for the month of analysis for #517 only



Energy balance plot using the original data for the month of analysis for total of #445 and #517



Energy balance plot using the estimated data for the month of analysis for total of #445 and #517



Rudder Tower (TAMU Bldg #446)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	002455	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption level is higher than the level during the past year.	1/10/2017 – Ongoing

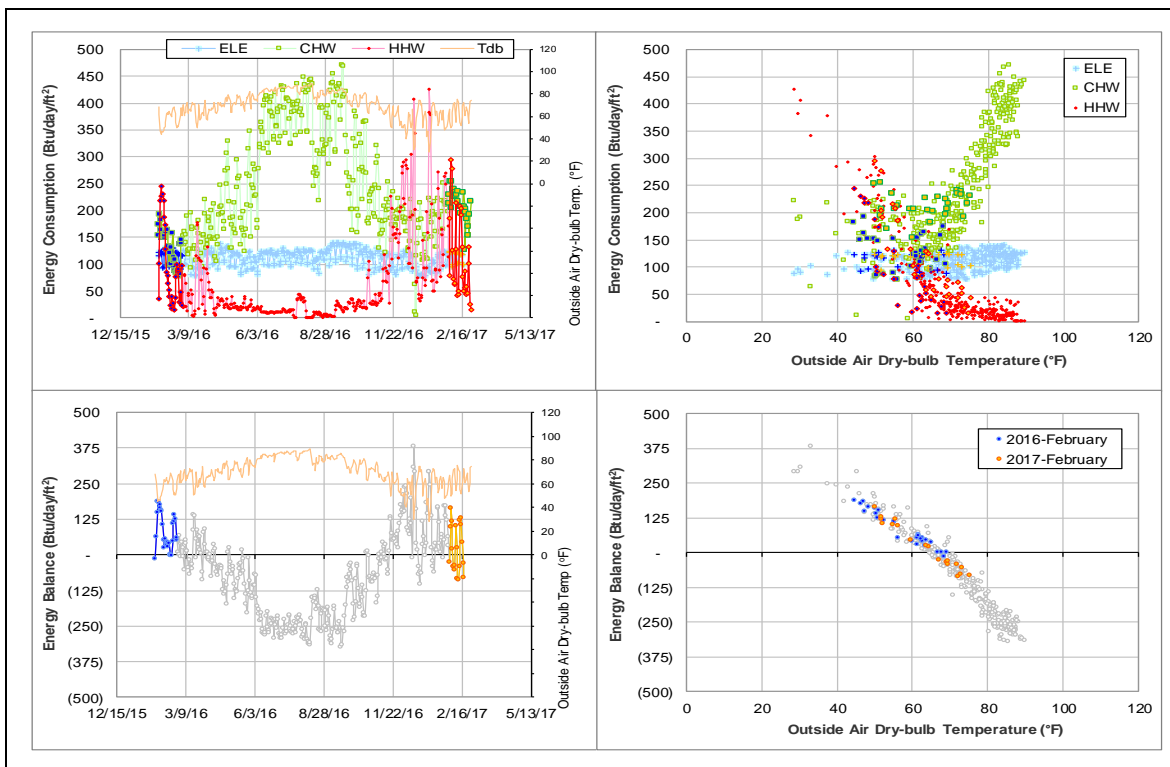
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	002455	1/10/2017 – Ongoing	Delta-T and Flow Rate	Fluctuate

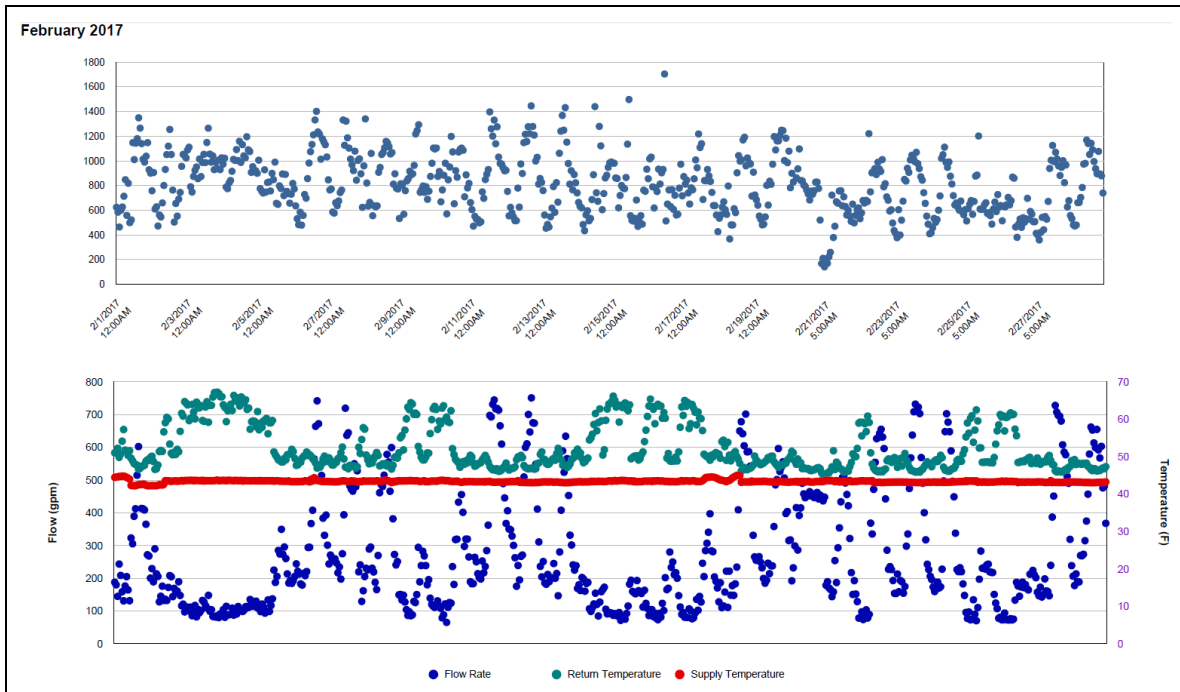
Quantitative descriptions and comments

CHW started to scatter on 1/10/2017 after a period of high Delta-T. The meter readings greatly fluctuate during this period. This whole month is estimated using a model.

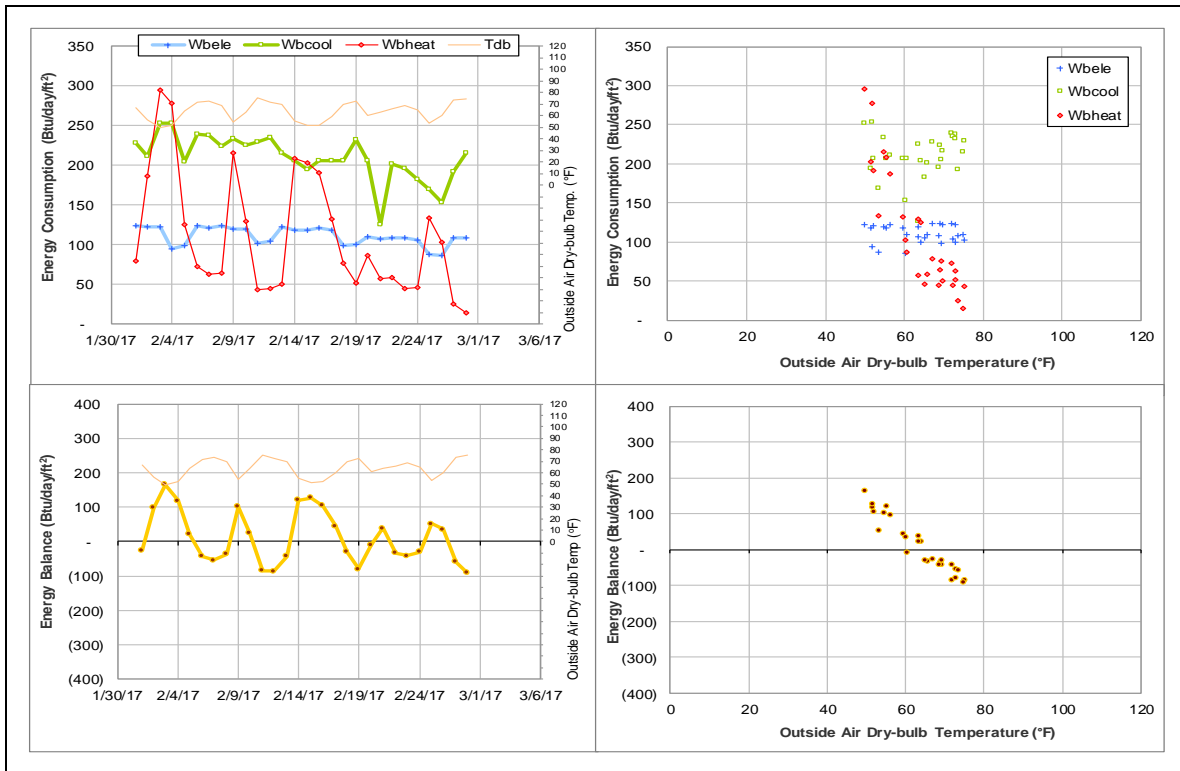
Explanatory Figure: 13 months energy balance plot with original data.



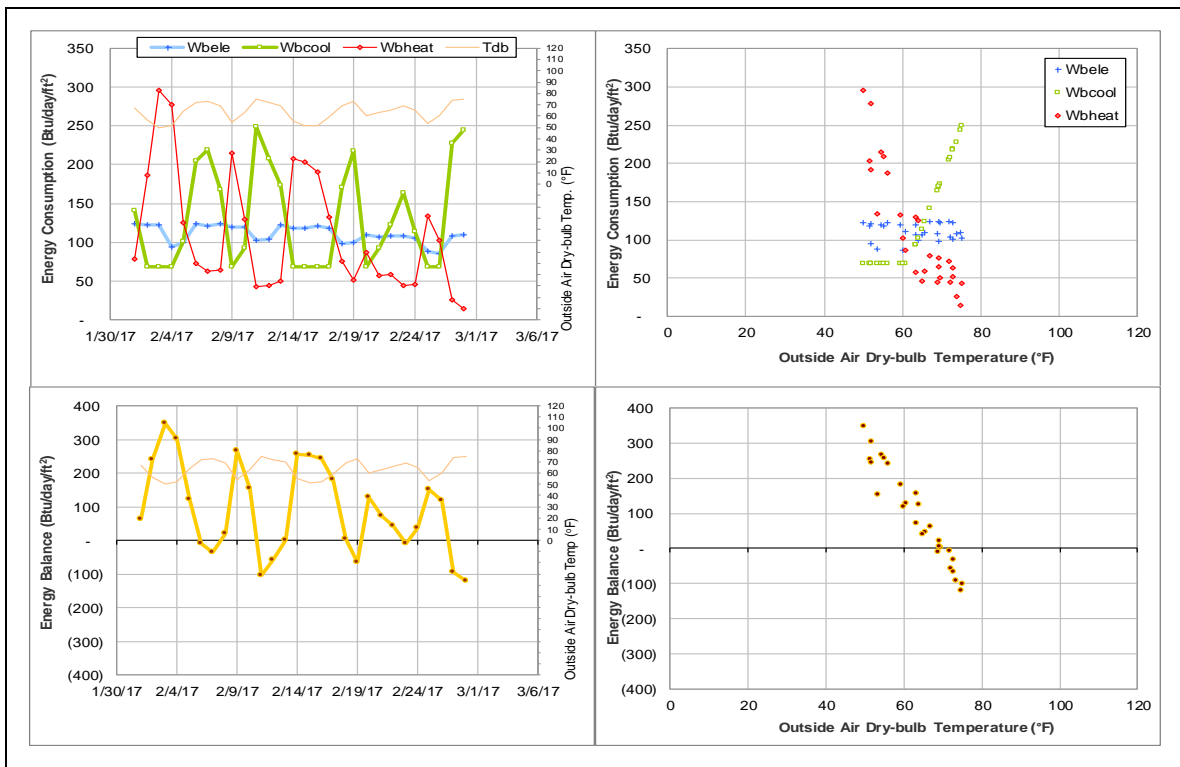
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Biological Sciences Building – East (TAMU Bldg #467)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	003851	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The metered values appear to be faulty.	8/6/2016 – Ongoing

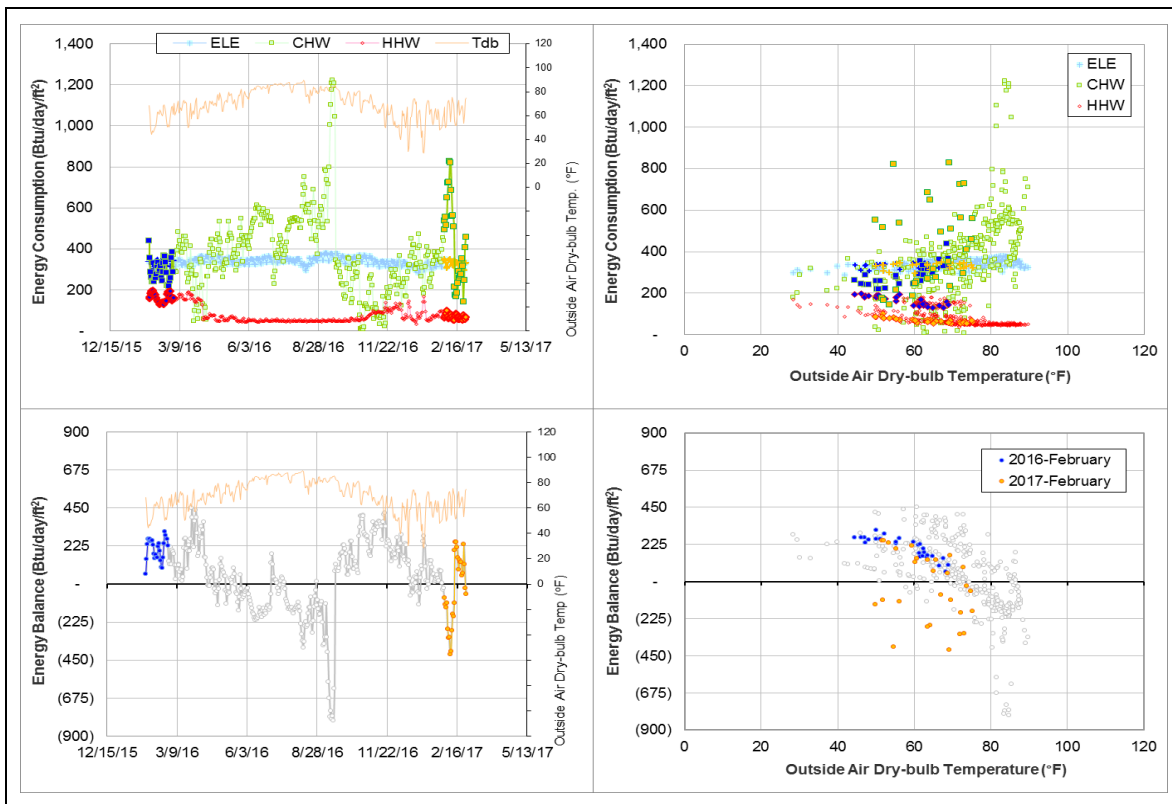
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	003851	8/6/2016 – Ongoing	Supply Temp	Faulty

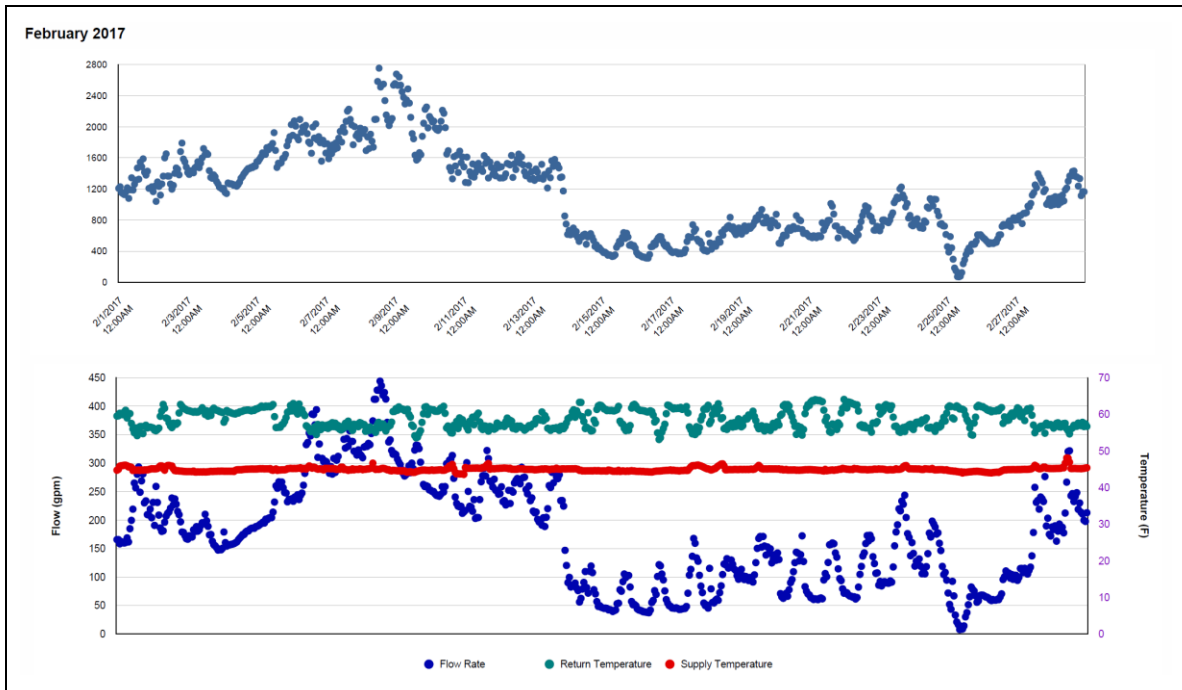
Quantitative descriptions and comments

The CHW supply temp readings started to decrease on 8/6/2016 while all adjacent buildings have stable supply temp at around 42°F. The supply temp had a period of obviously erroneous values of 20°F during 9/10 – 9/20/2016, and then increased to 45°F. The readings are still questionable and the whole month is estimated using a model.

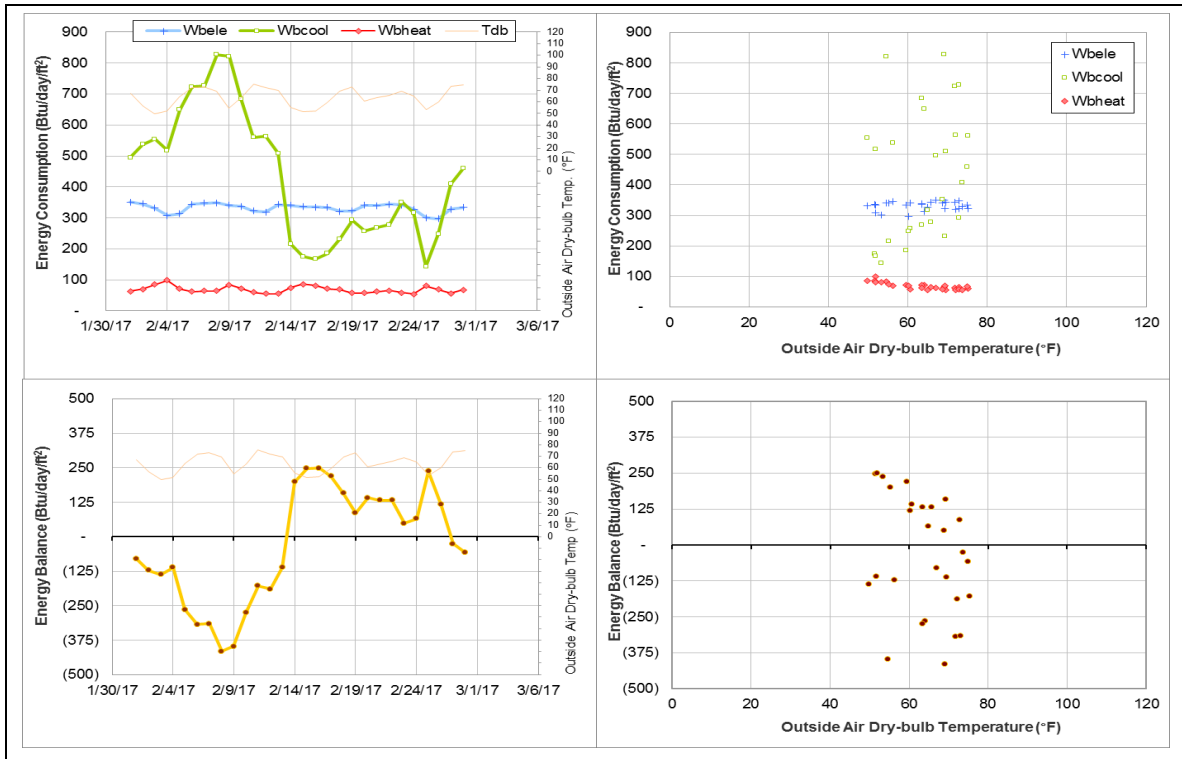
Explanatory Figure: 13 months energy balance plot with original data.



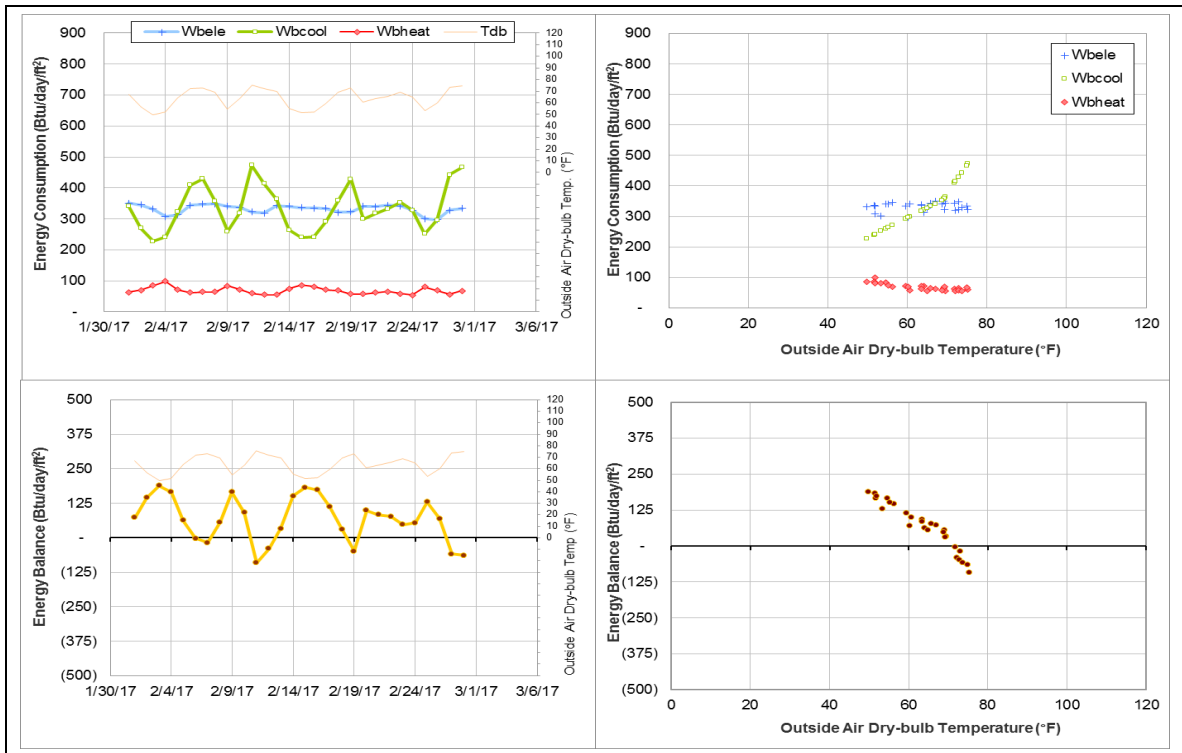
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW during February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Heaton Hall (TAMU Bldg #481)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	007531	28	2/1/2017 – 2/28/2017	Model
HHW	007535	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The CHW consumption decreased.	2/1/2017 – 2/28/2017
HHW	The HHW consumption decreased.	2/1/2017 – 2/28/2017

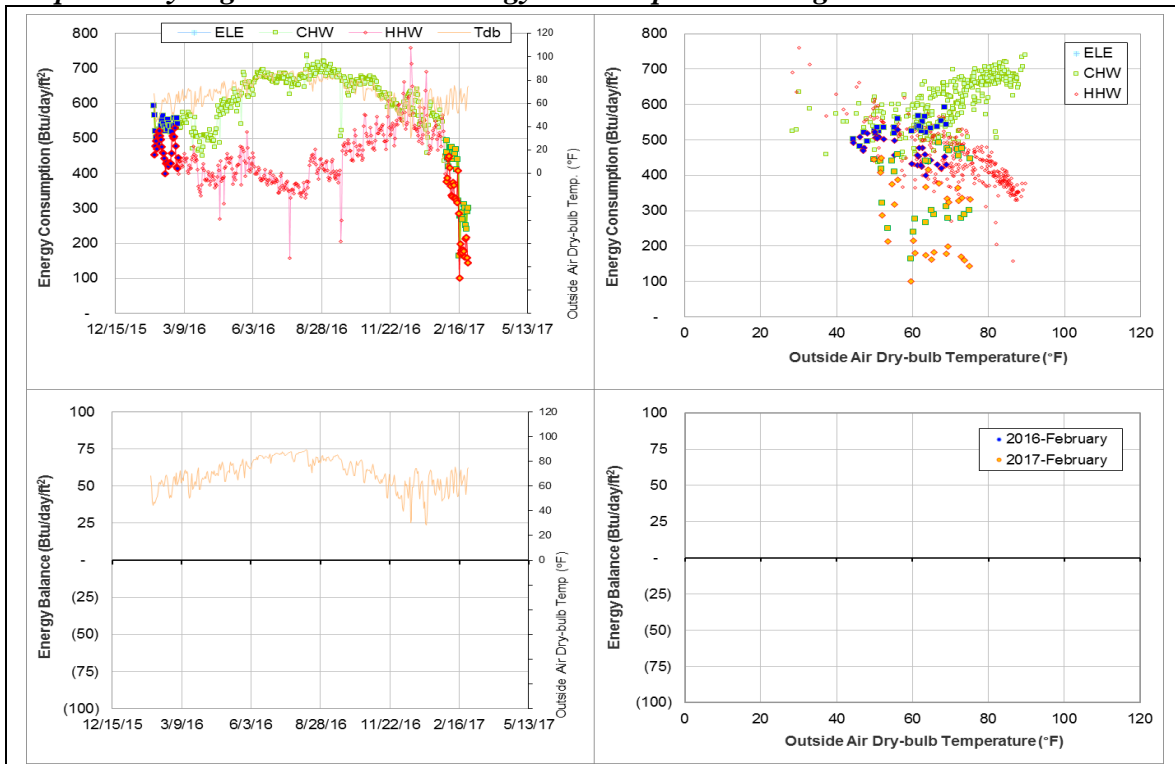
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	007531	2/1/2017 – 2/28/2017	Flow rate	Decreased
HHW	007535	2/1/2017 – 2/28/2017	Flow rate	Decreased

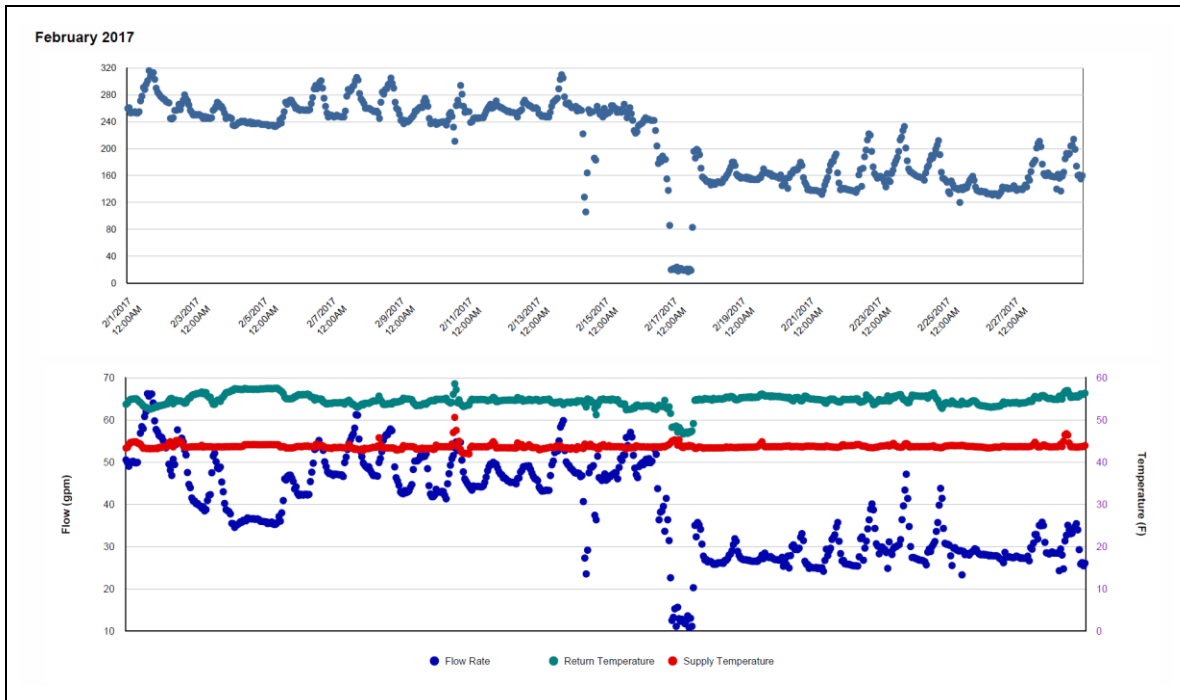
Quantitative descriptions and comments

The CHW and HHW consumption decreased by about 100 Btu/day/ft² at the beginning of the month and decreased further by about 200 Btu/day/ft² more around 2/17/2017. Both the CHW and HHW for the whole month were estimated by model.

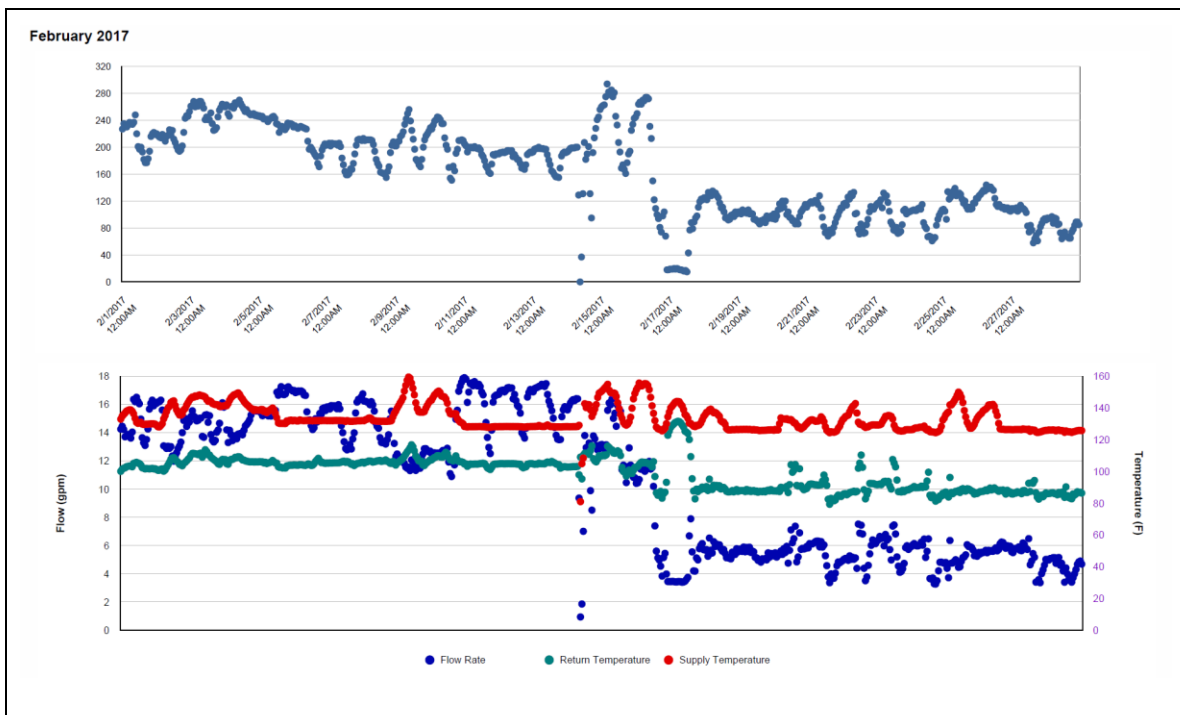
Explanatory Figure: 13 months energy balance plot with original data.



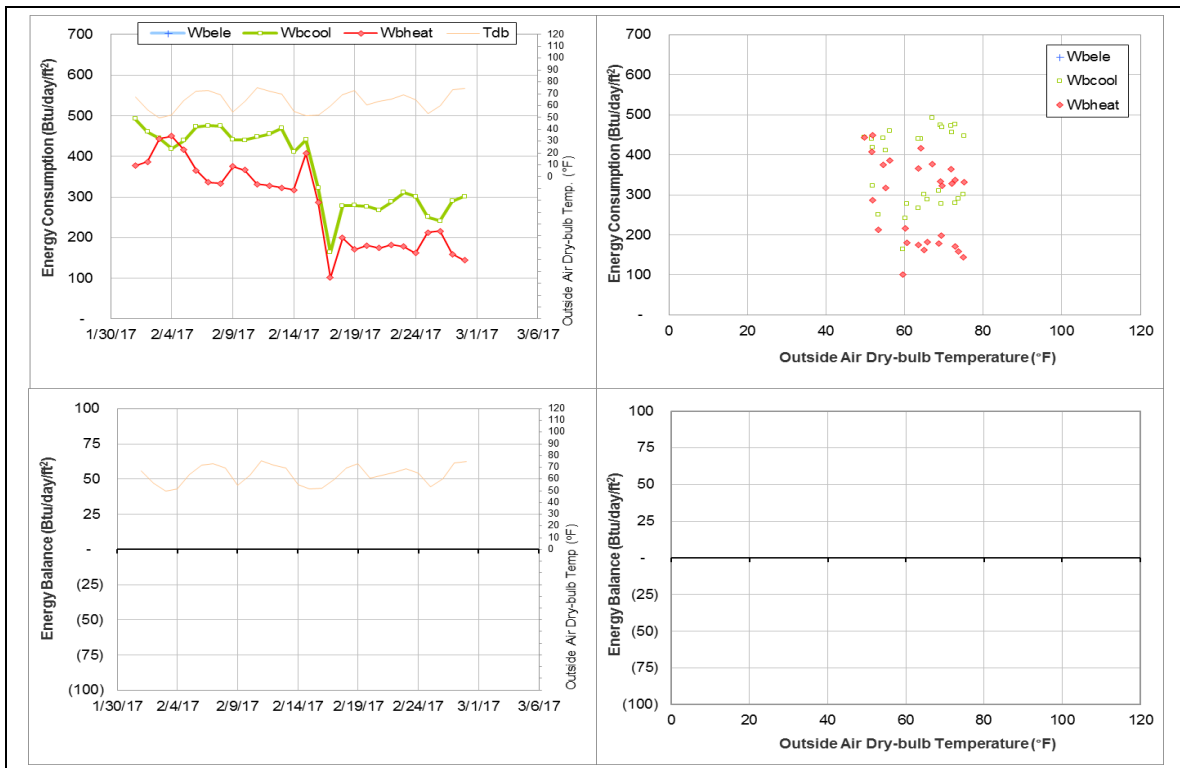
Explanatory Figure: Time series plots of hourly CHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



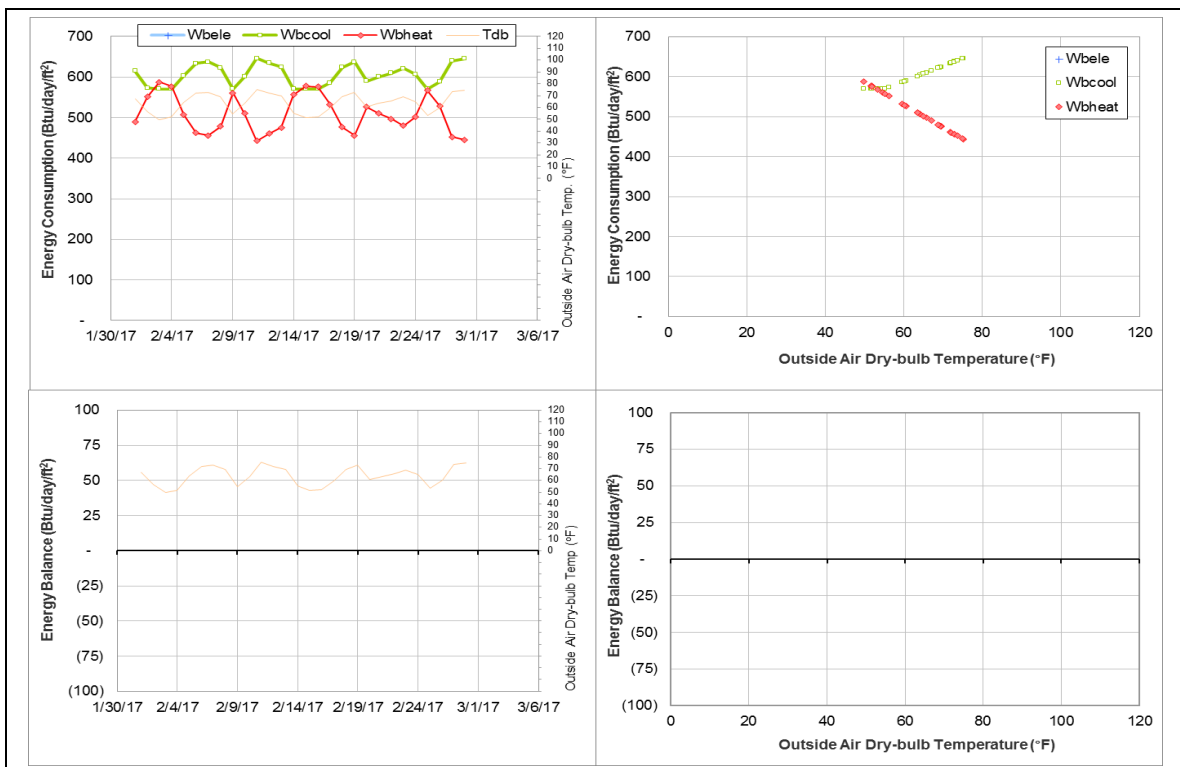
Explanatory Figure: Time series plots of hourly HHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Halbouty Geosciences Building (TAMU Bldg #490)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
HHW	006900	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
HHW	The HHW consumption decreased to zero.	12/19/2016 – 2/28/2017

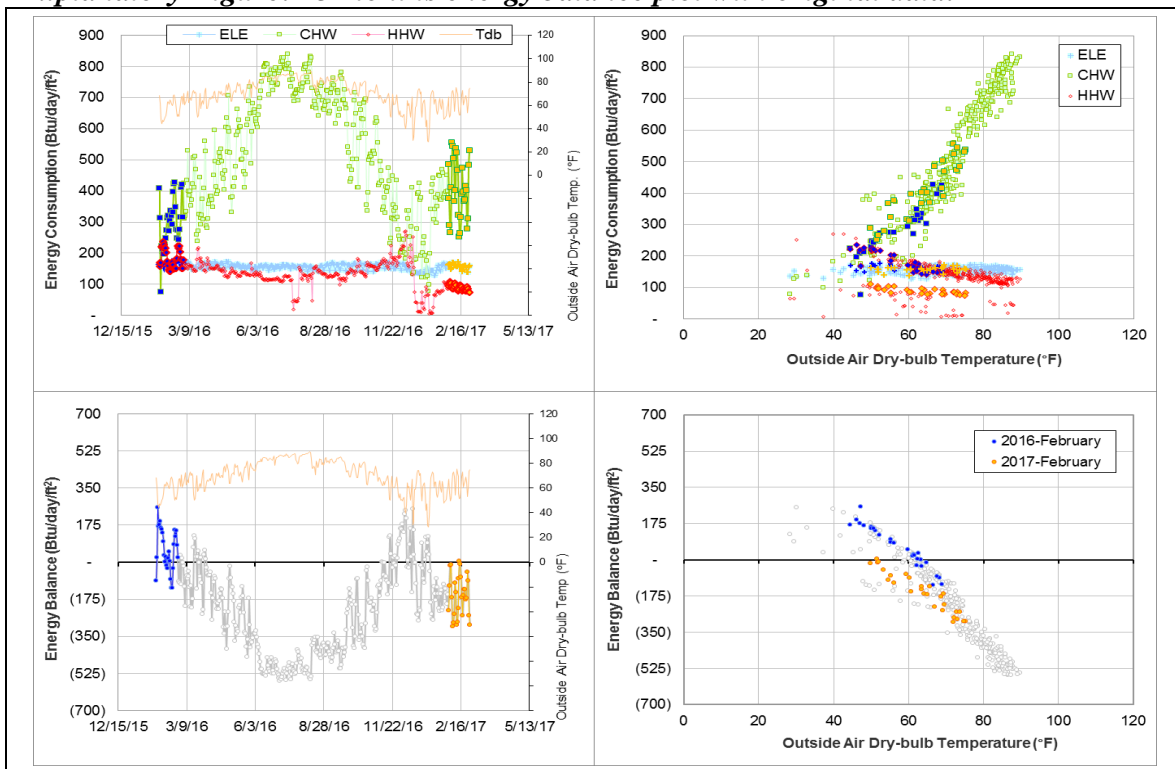
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
HHW	006900	12/19/2017 – 1/13/2017	Flow rate	Faulty, Constant value
		12/19/2017 – 2/28/2017	Supply and return temperature	Faulty, Constant value

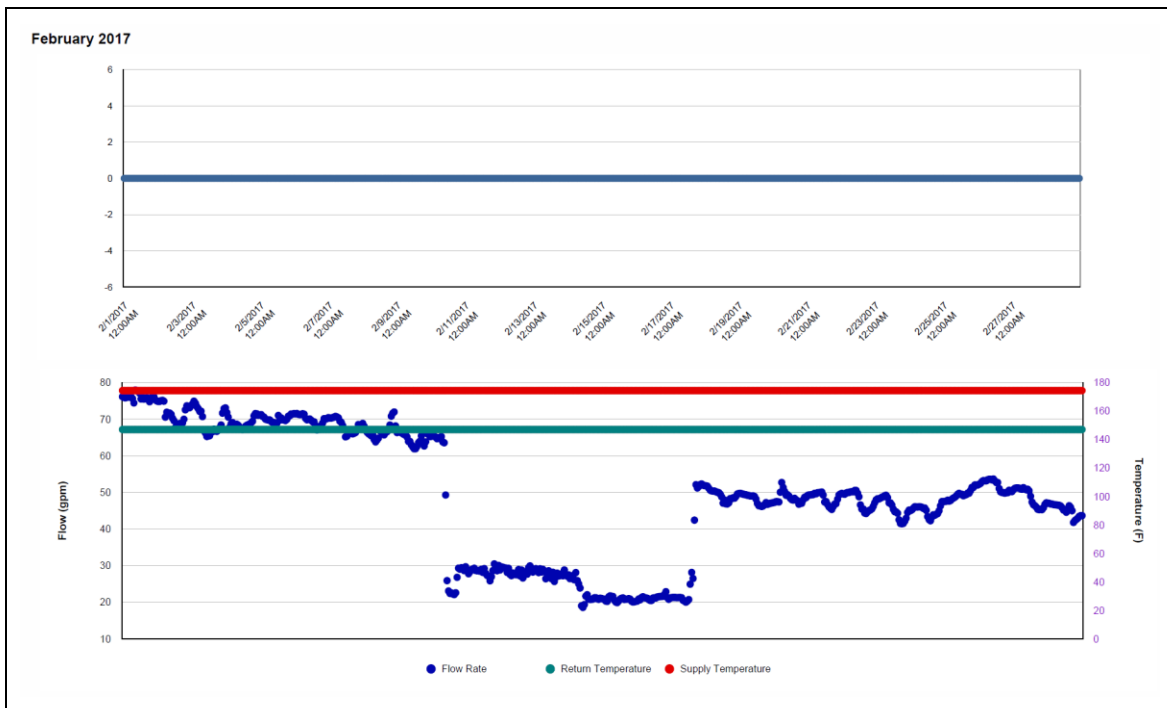
Quantitative descriptions and comments

Starting 12/19/2016, for HHW MID 006900, the consumption suddenly decreased and remained at zero caused by faulty flow rate and supply and return temperature with constant values. The flow rate seemed to be fixed on 1/13/2017, but the temperature sensors still maintained at constant value. The HHW for the whole month was estimated by model for this meter.

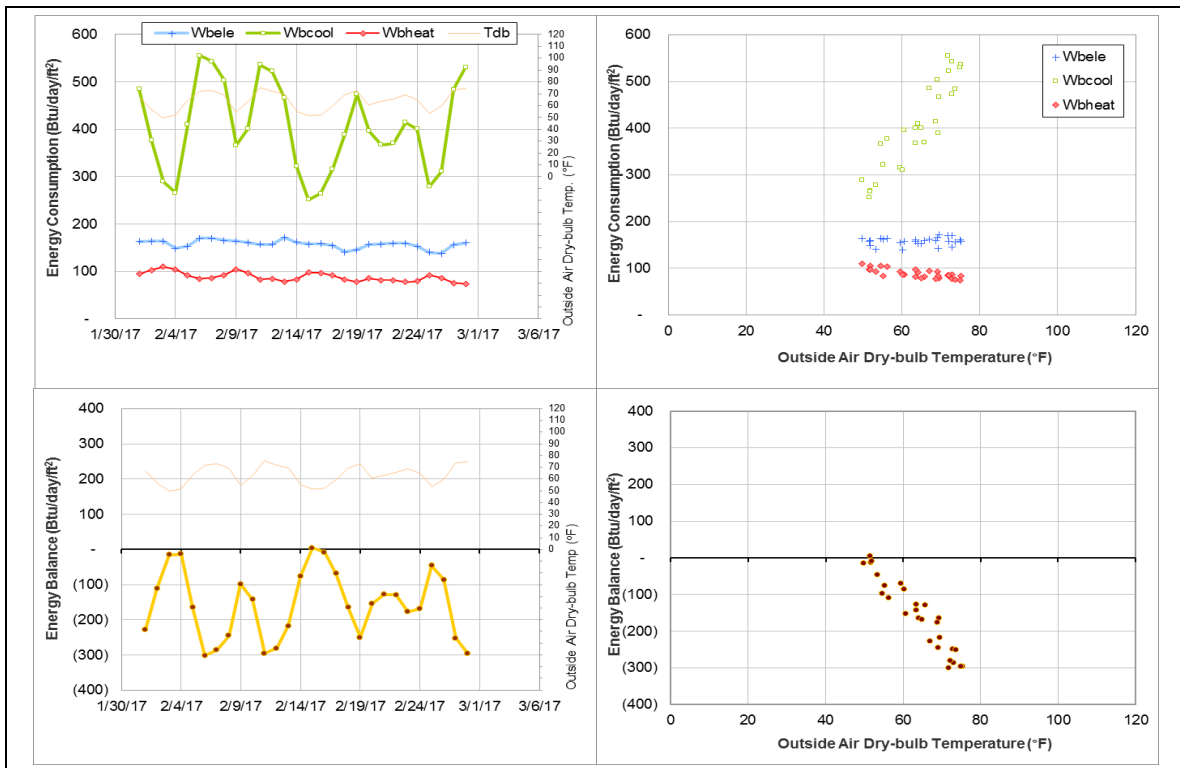
Explanatory Figure: 13 months energy balance plot with original data.



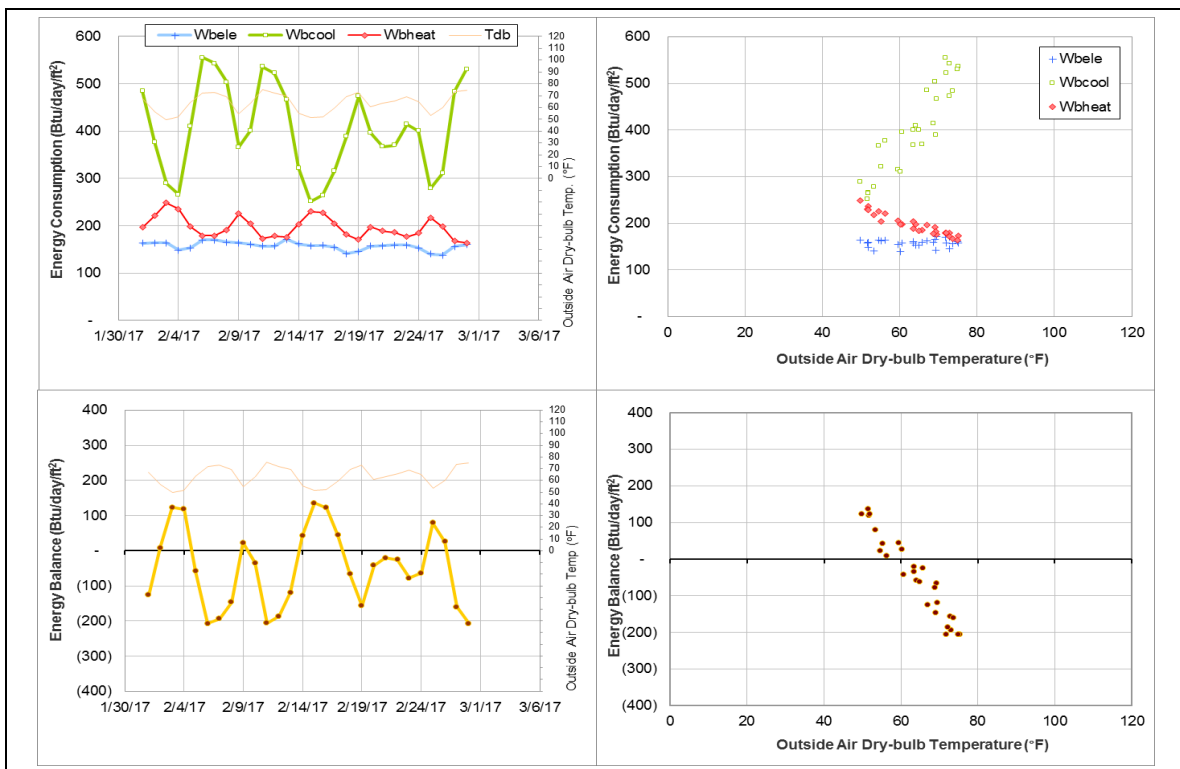
Explanatory Figure: Time series plots of MID 006900 hourly HHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Engineering Innovation Center (TAMU Bldg #499)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	002672	8	2/21/2017 – 2/28/2017	Model
HHW	002683	8	2/21/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The CHW consumption decreased.	2/21/2017 – 2/28/2017
HHW	The HHW consumption decreased.	2/21/2017 – 2/28/2017

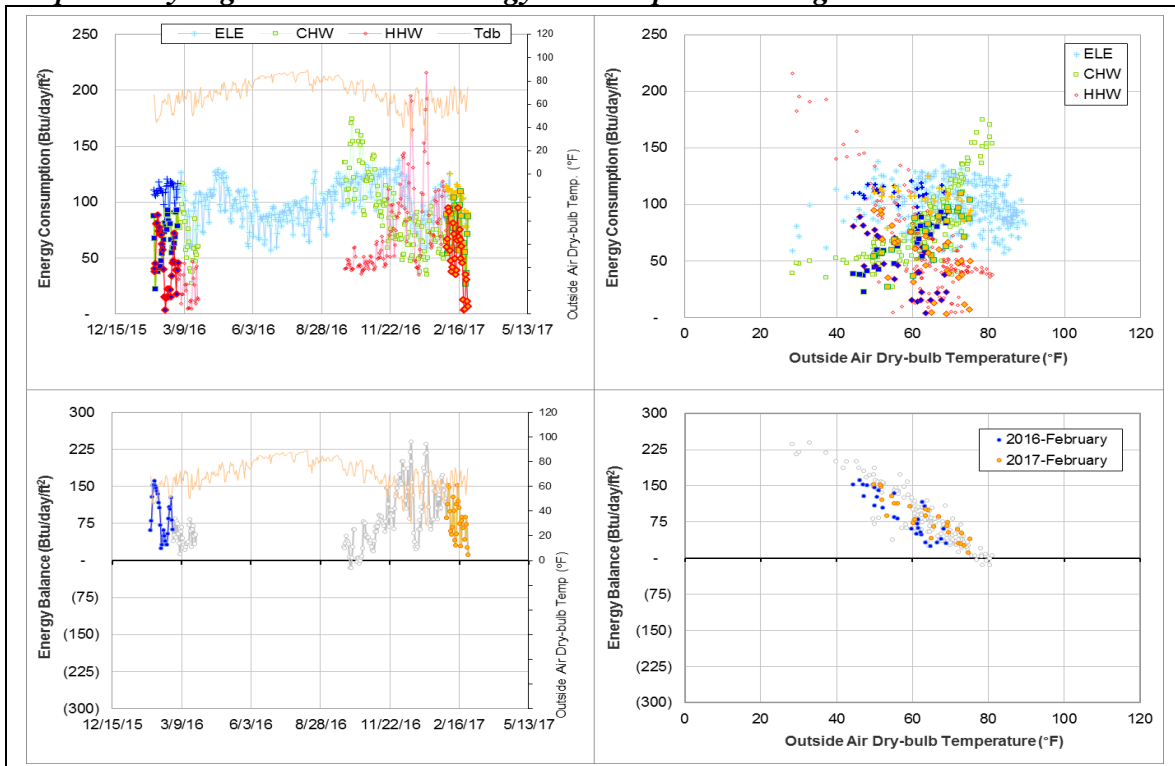
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	002672	2/21/2017 – 2/28/2017	Return Temperature	Increased
HHW	002683	2/21/2017 – 2/28/2017	Delta-T	Decreased

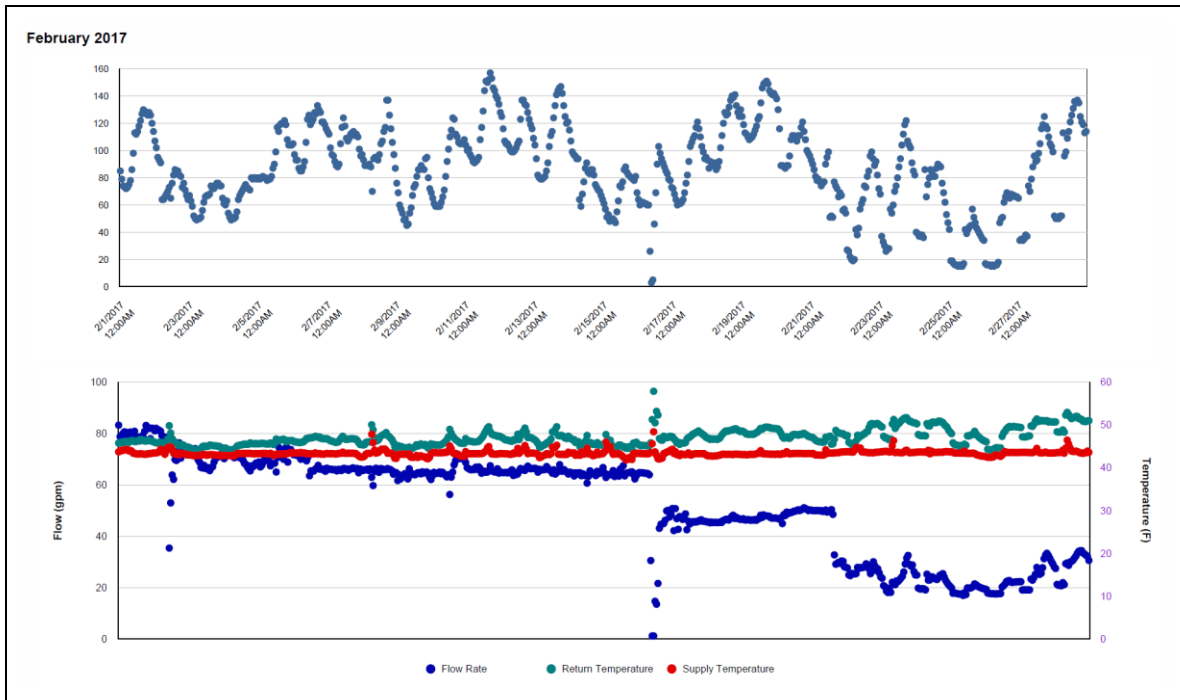
Quantitative descriptions and comments

The CHW return temperature increased starting 2/21/2017. The HHW delta-T decreased to zero and near zero also starting 2/21/2017. Both the CHW and HHW consumption were estimated for this period.

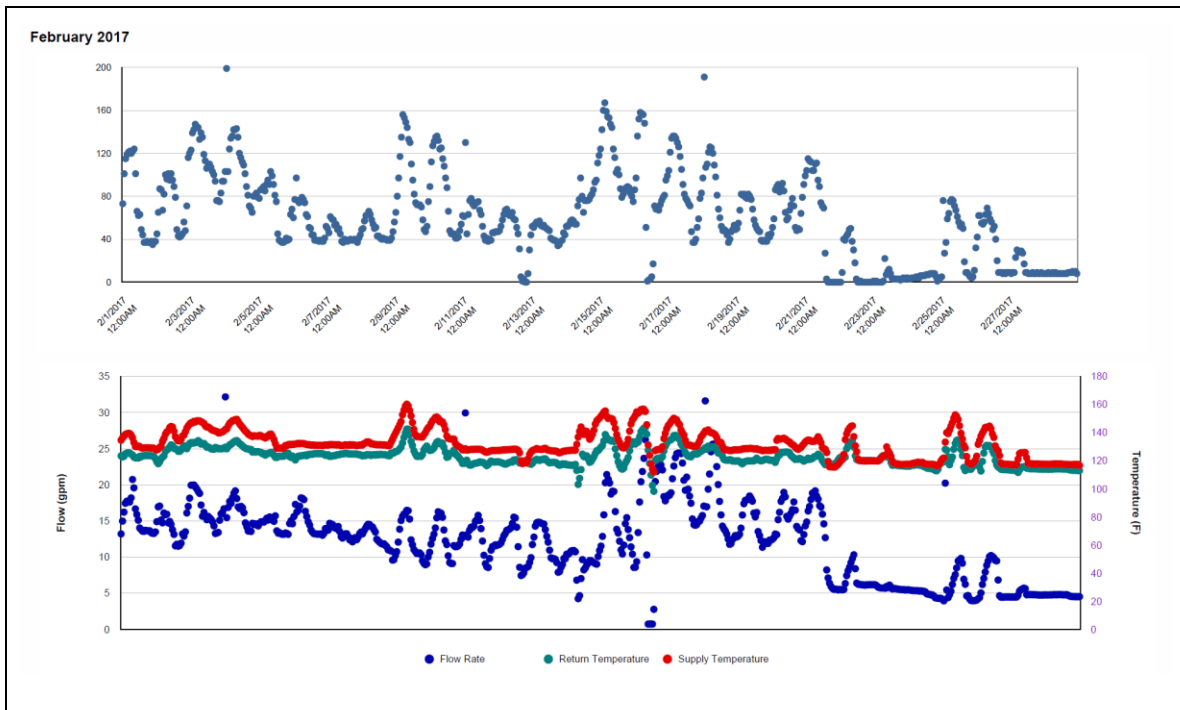
Explanatory Figure: 13 months energy balance plot with original data.



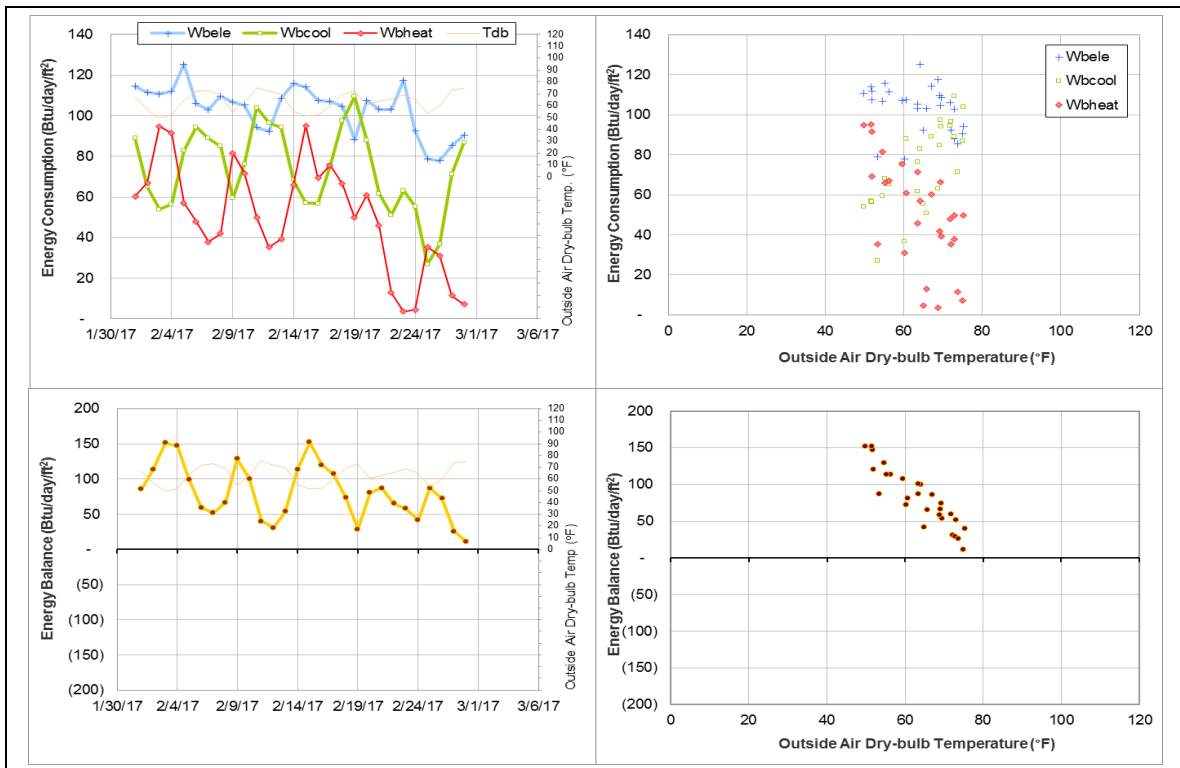
Explanatory Figure: Time series plots of hourly CHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



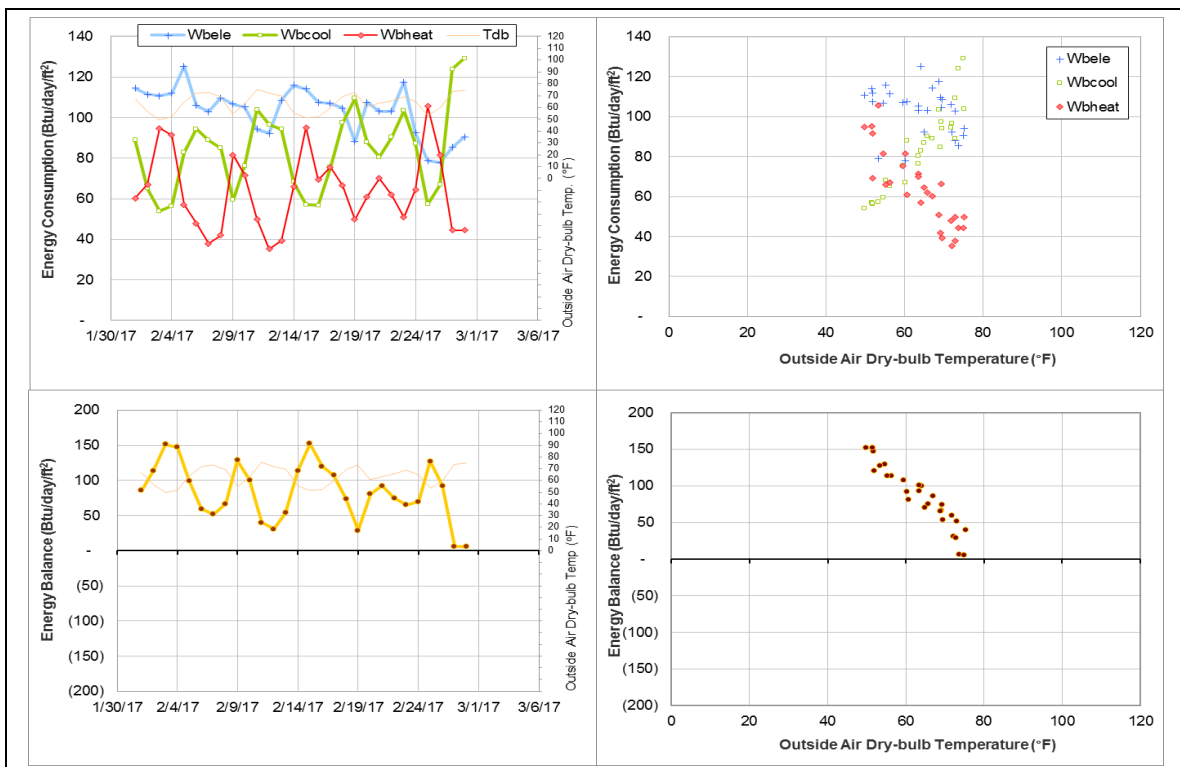
Explanatory Figure: Time series plots of hourly HHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Veterinary Teaching Hospital and Veterinary Medicine Administration (TAMU Bldg #508-1026)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	004166	5	2/24/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The CHW consumption decreased to zero.	2/24/2017 – 2/28/2017

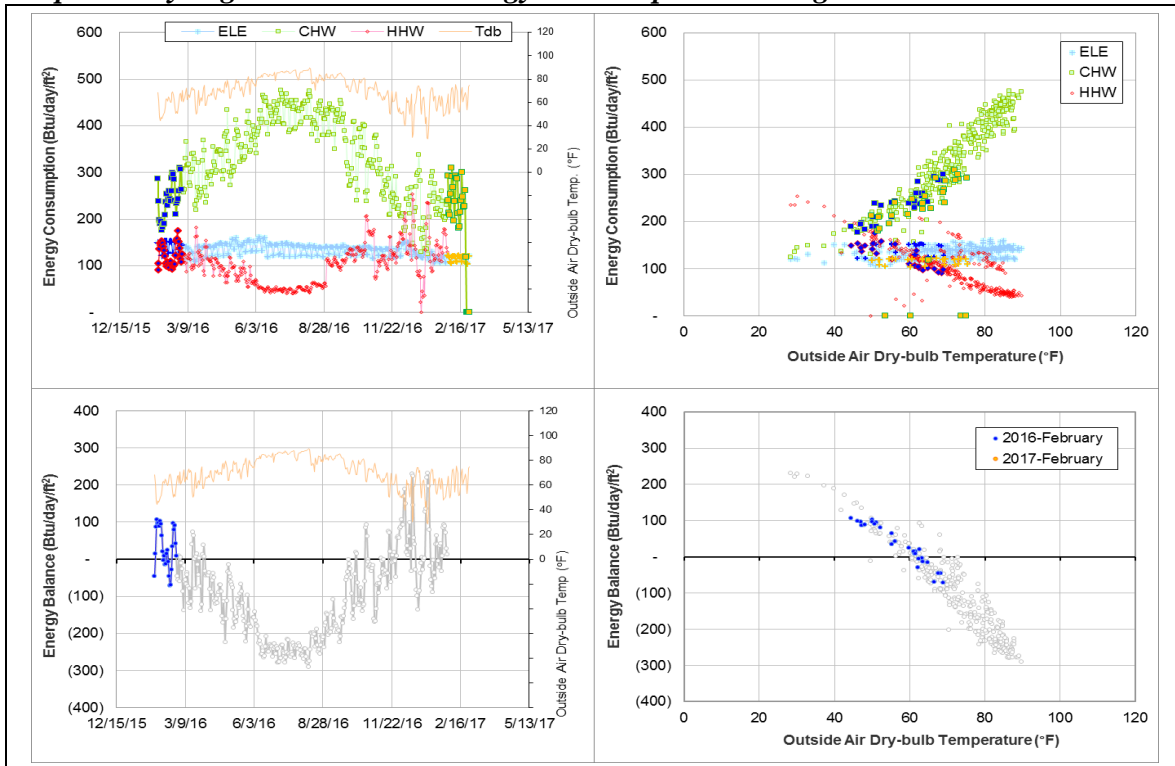
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	004166	2/24/2017 – 2/28/2017	Flow rate	Faulty, Constant value
		2/24/2017 – 2/28/2017	Supply and return temperature	Faulty, Constant value

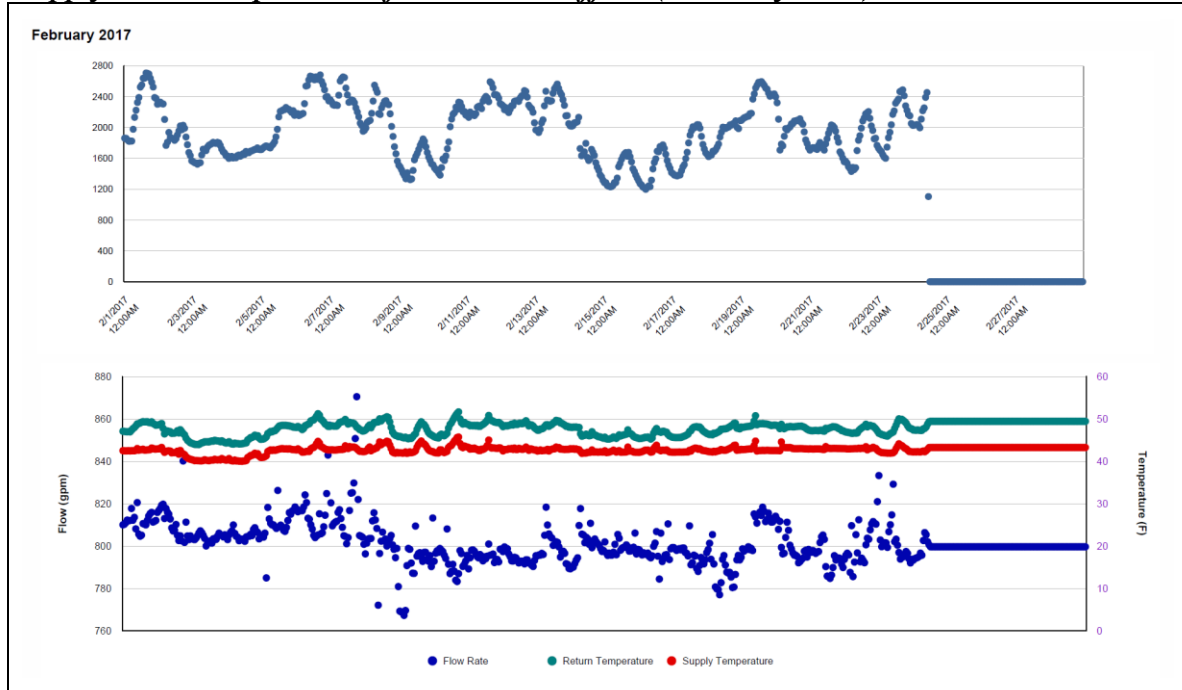
Quantitative descriptions and comments

Starting 2/24/2017, the CHW consumption suddenly decreased and remained at zero caused by faulty flow rate and supply and return temperature with constant values. The CHW was estimated by model for this period.

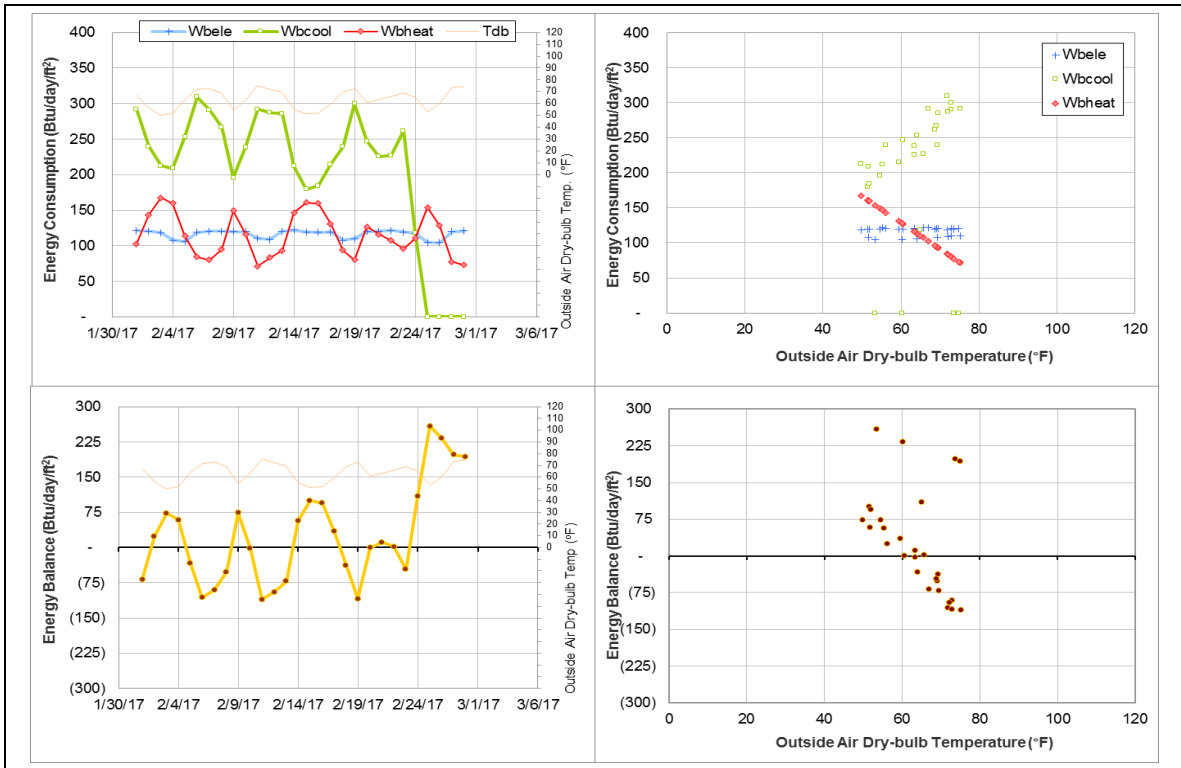
Explanatory Figure: 13 months energy balance plot with original data.



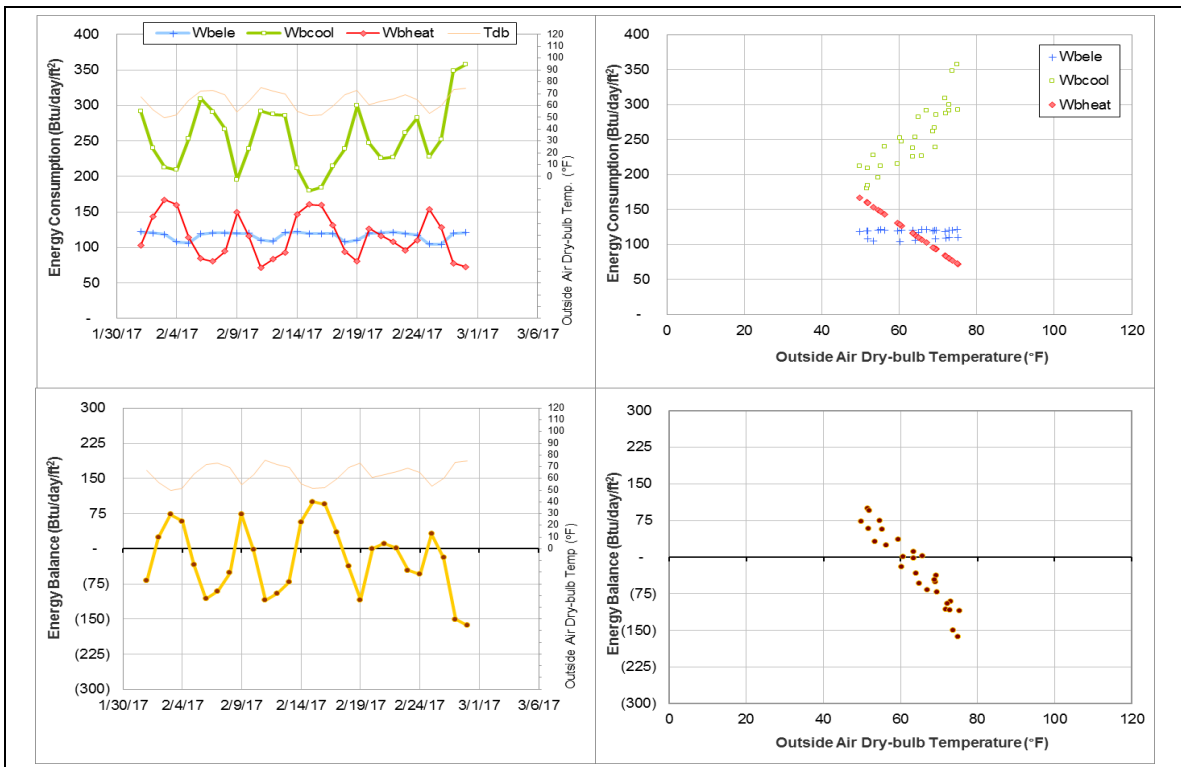
Explanatory Figure: Time series plots of hourly CHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Heep Laboratory Building (TAMU Bldg #511)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	005821	12	2/1/2017 – 2/4/2017 2/9/2017 – 2/16/2017	Model
HHW	005825	9	2/4/2017, 2/9/2017 – 2/16/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption level increased.	6/14/2016 – 2/4/2017
	The consumption decreased to zero.	2/4/2017, 2/9/2017 – 2/11/2017
HHW	The consumption decreased to zero.	2/4/2017, 2/9/2017 – 2/16/2017

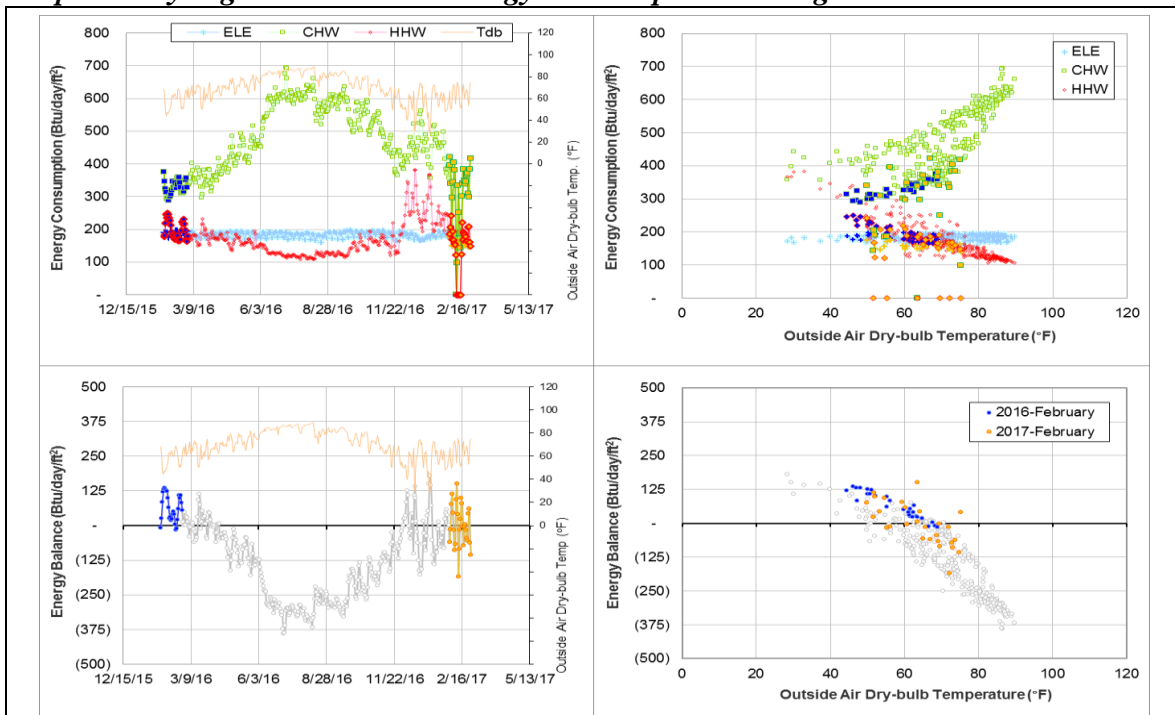
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	005821	6/14/2016 – 2/4/2017	Delta-T	Increased
		2/4/2017, 2/9/2017 – 2/11/2017	Flow rate	Zero
HHW	005825	2/4/2017, 2/9/2017 – 2/16/2017	Flow rate	Zero

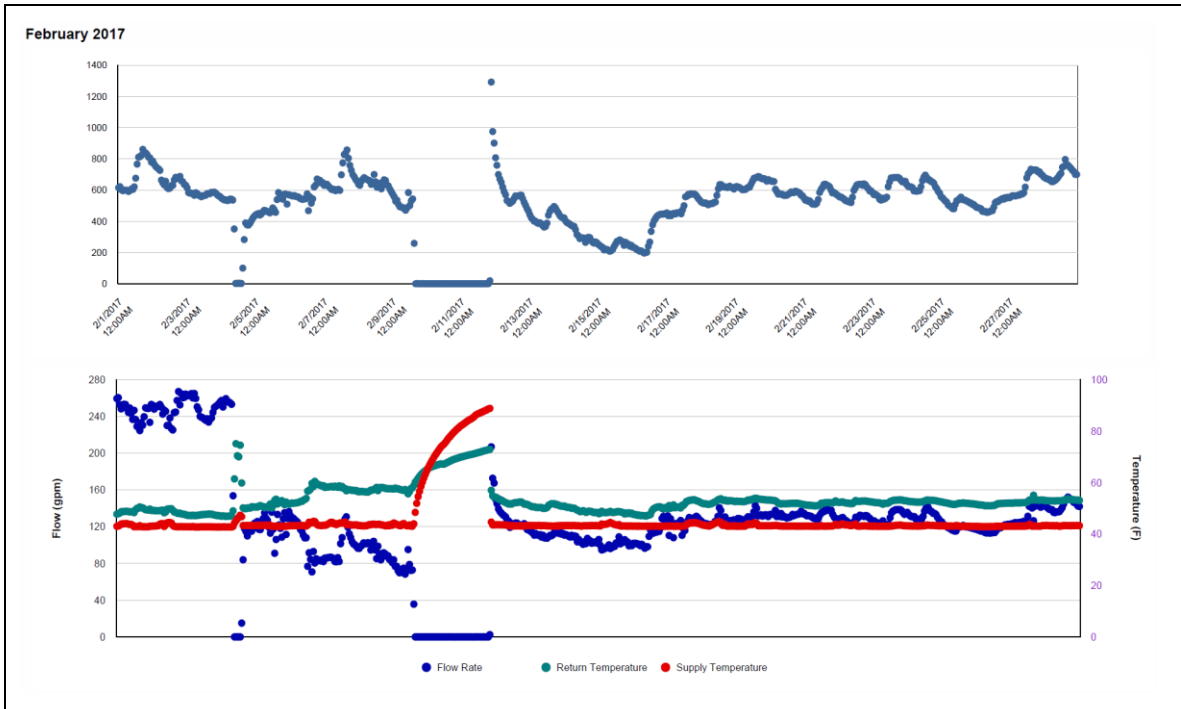
Quantitative descriptions and comments

The CHW consumption increased by 100 Btu/day/ft² starting around 6/14/2016 and the pattern continued through 2/4/2017. Conversely, the CHW consumption dropped to zero on part of 2/4/2017 as well as 2/9/2017 – 2/11/2017 due to a flow rate of zero. The HHW consumption also dropped to zero on part of 2/4/2017 as well as 2/9/2017 – 2/16/2017. Both CHW and HHW consumption were estimated by model for the specified dates.

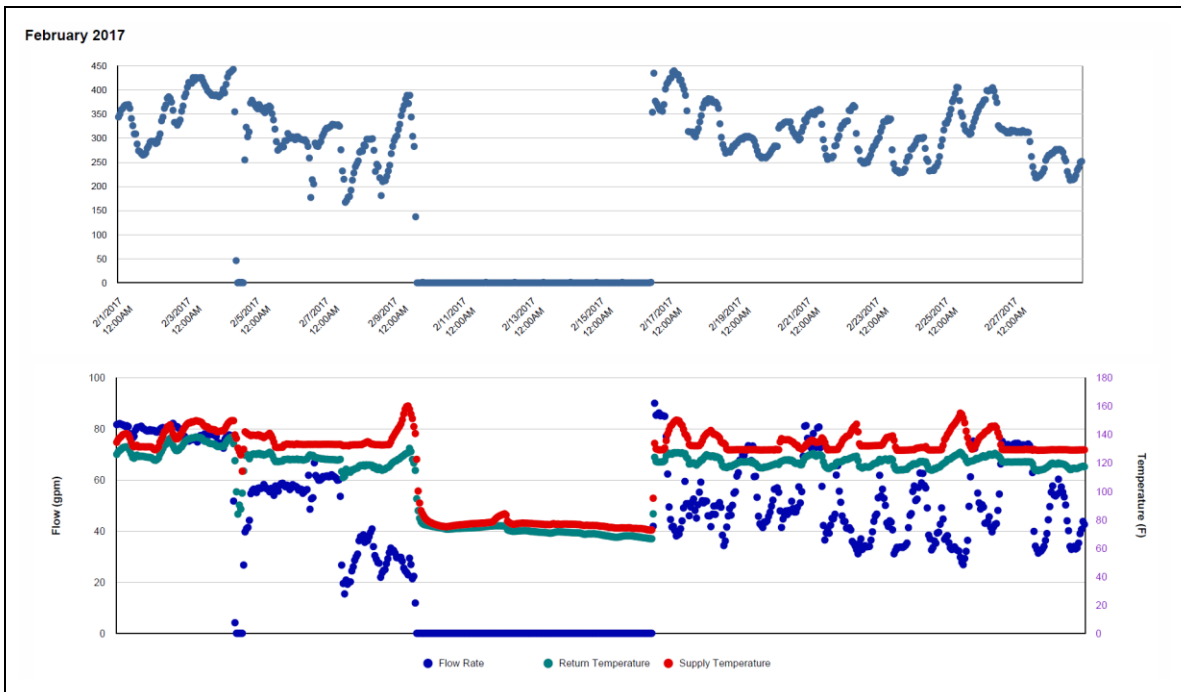
Explanatory Figure: 13 months energy balance plot with original data.



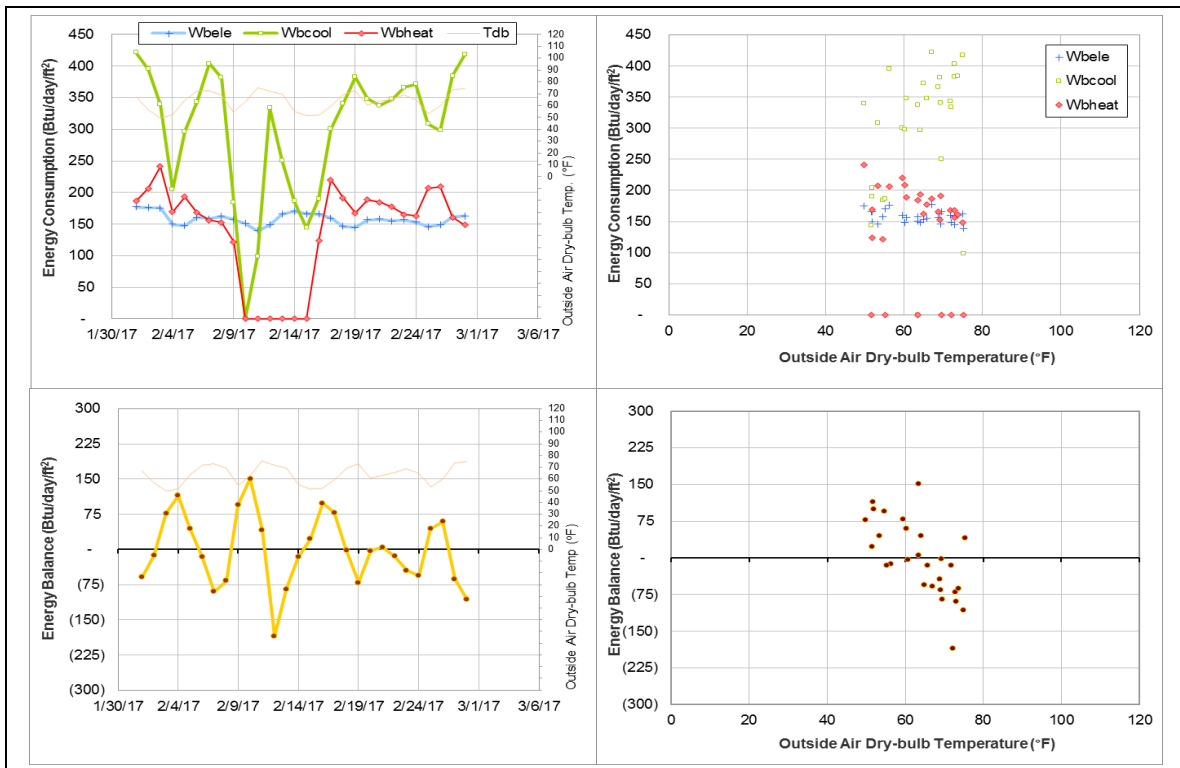
Explanatory Figure: Time series plots of hourly CHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



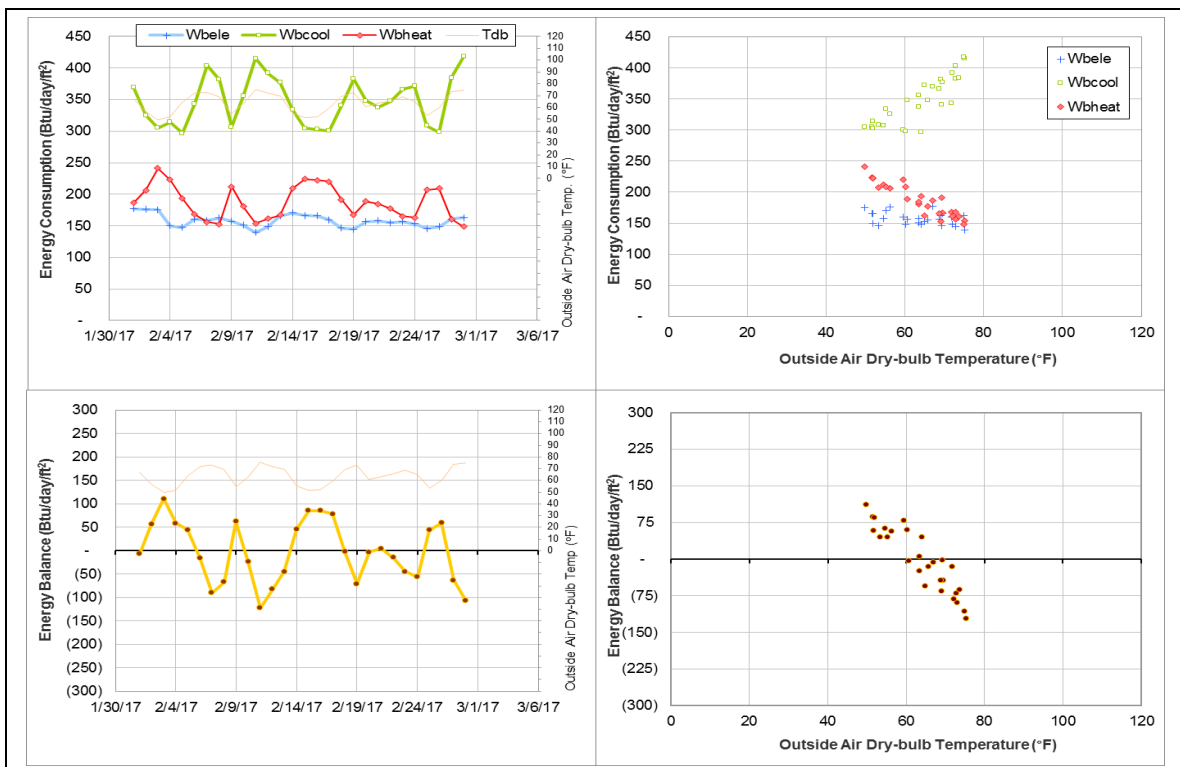
Explanatory Figure: Time series plots of hourly HHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



All Faiths Chapel (TAMU Bldg #512)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	004288	28	2/1/2017 – 2/28/2017	Model
HHW	004293	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The CHW consumption increased.	1/12/2017 – 2/28/2017
HHW	The HHW consumption increased.	12/4/2016 – 12/6/2016 12/19/2016 – 2/28/2017

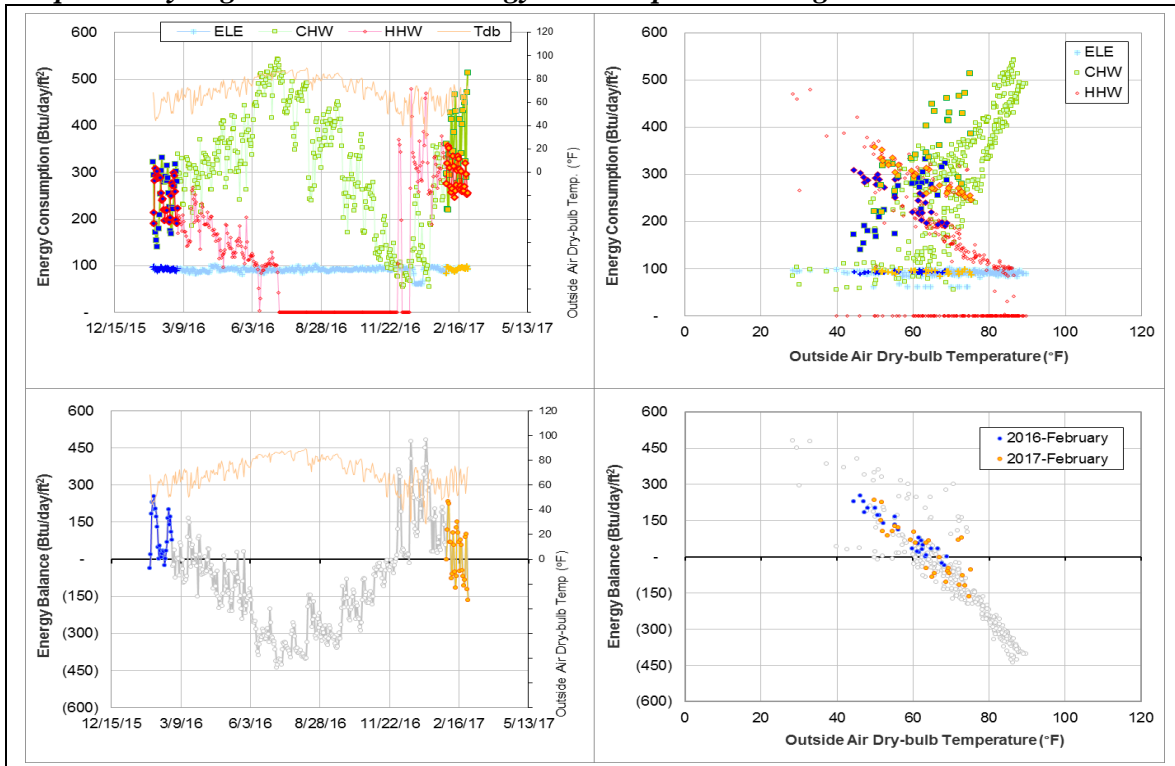
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	004288	1/12/2017 – 2/28/2017	Delta-T	Sudden increase
HHW	004293	12/4/2016 – 12/6/2016 12/19/2016 – 2/28/2017	Flow rate	Increased

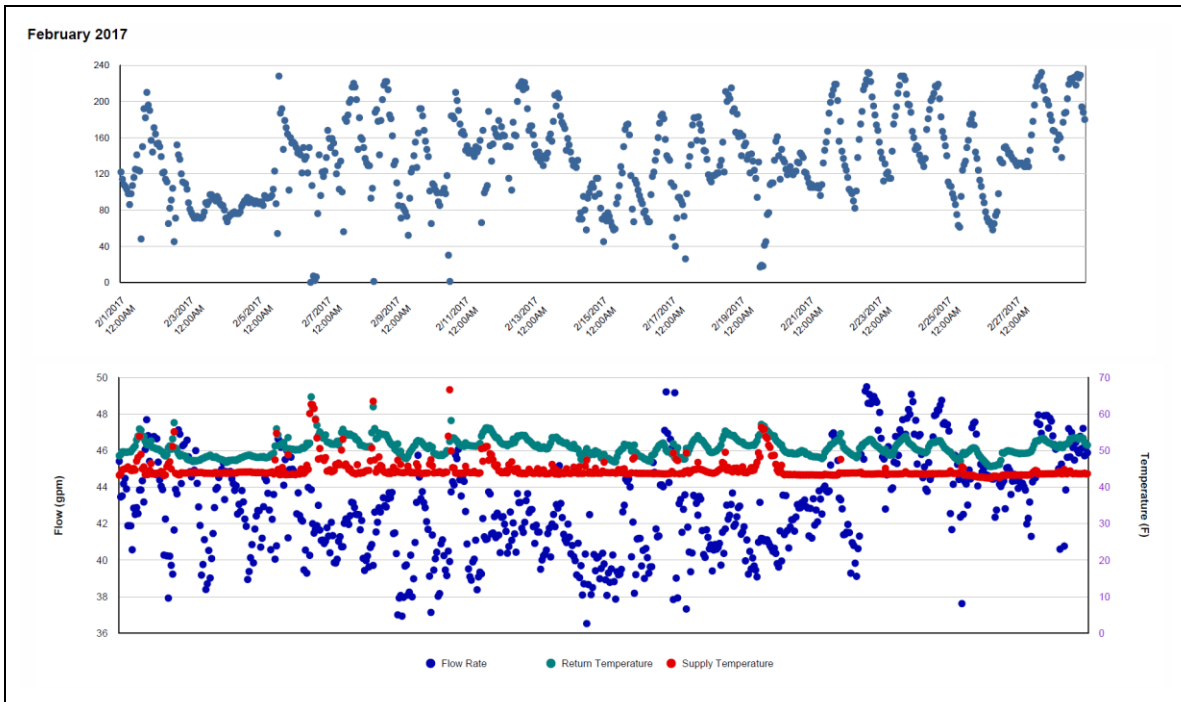
Quantitative descriptions and comments

Starting around 1/12/2017, the CHW delta-T increased. The CHW was estimated by model for this period. From 12/4/2016 – 12/6/2016 and 12/19/2016 – 2/28/2017, the HHW consumption level is higher than the previous trend. The HHW was estimated by model for this period.

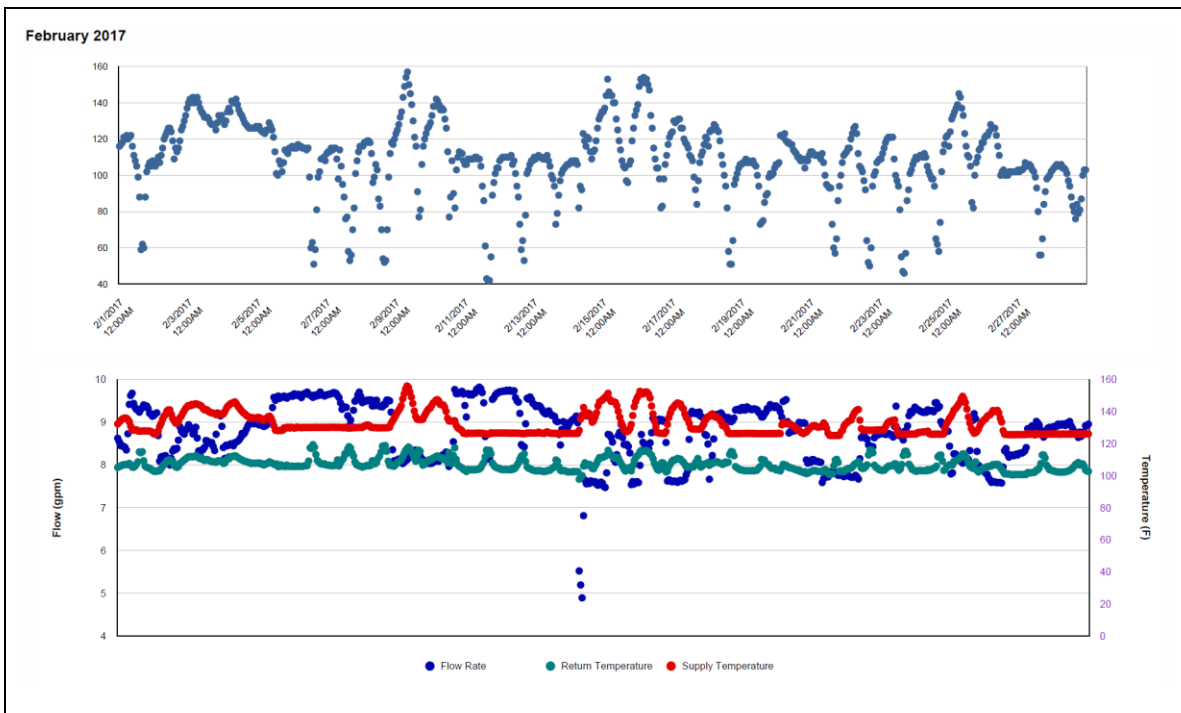
Explanatory Figure: 13 months energy balance plot with original data.



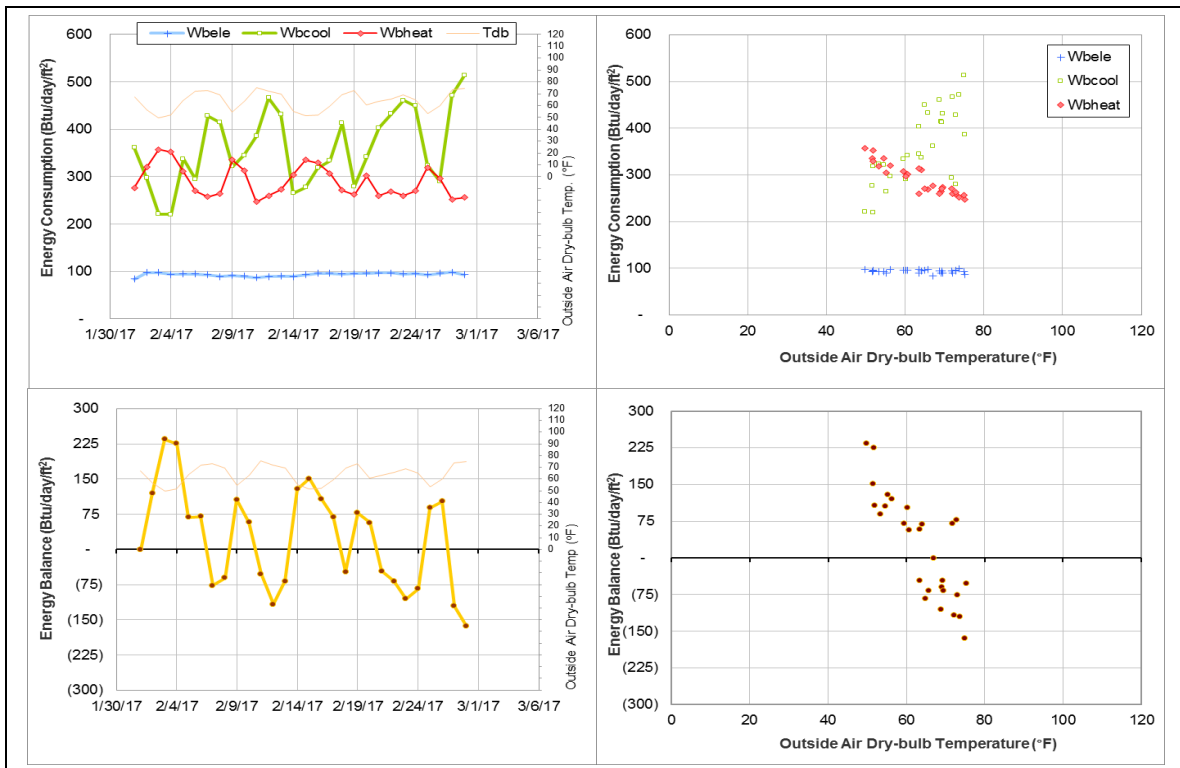
Explanatory Figure: Time series plots of hourly CHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



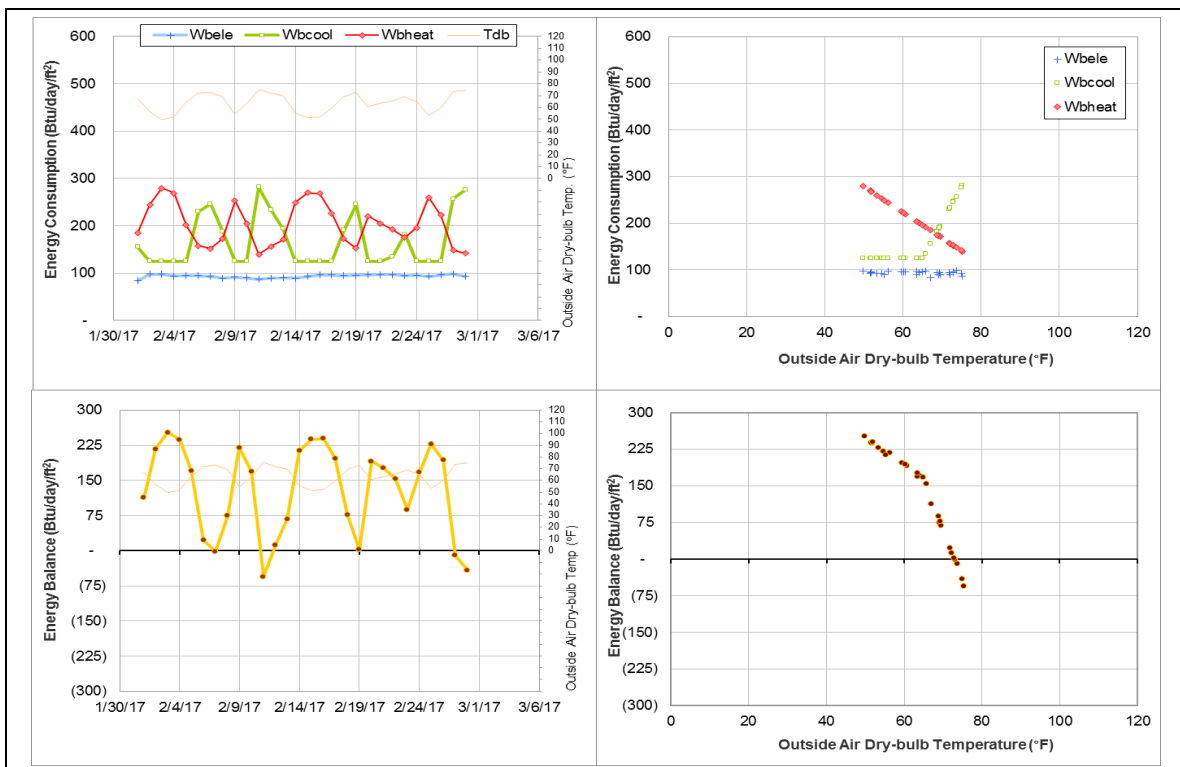
Explanatory Figure: Time series plots of hourly HHW energy consumption, flow, and supply/return temperatures from utilities office. (February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



McNew Laboratory (TAMU Bldg #740)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	005974	28	2/1/2017 – 2/28/2017	Model
HHW	005968	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The CHW consumption level increased.	2/1/2017 – 2/28/2017
HHW	The HHW consumption pattern is zero or low.	5/1/2016– Ongoing

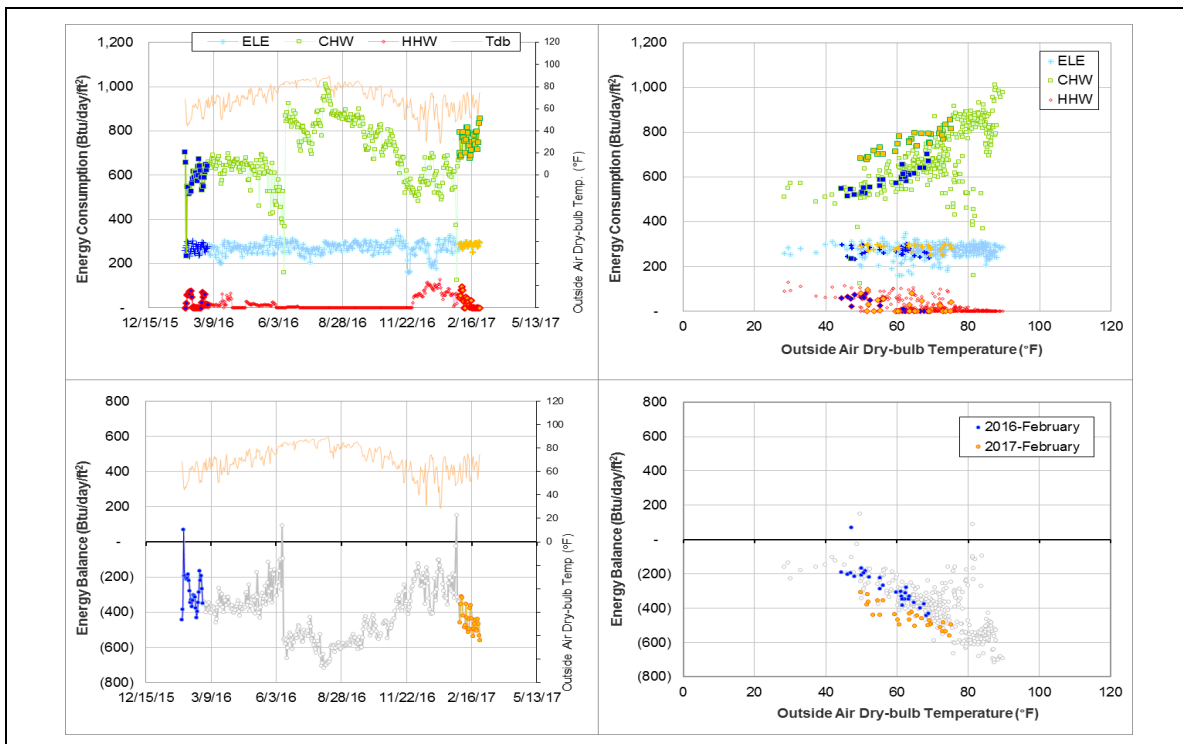
Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	005974	2/1/2017 – 2/28/2017	Delta-T	Increased
HHW	005968	5/1/2016 – Ongoing	Flow rate	Decrease to near zero values

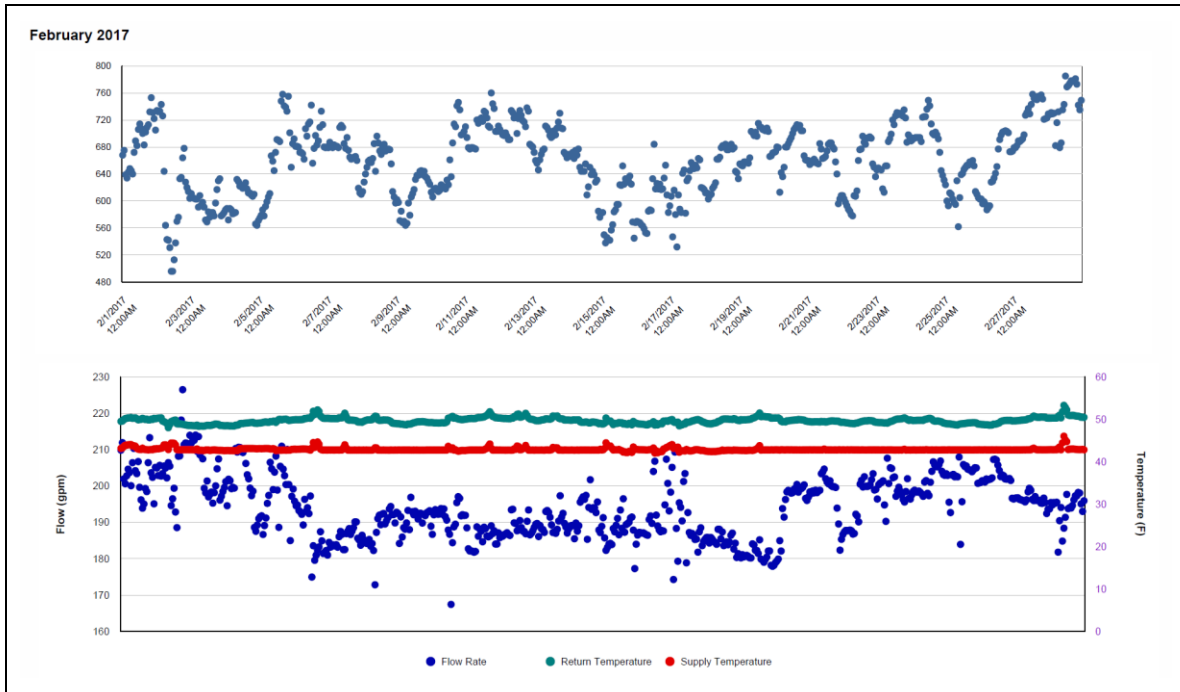
Quantitative descriptions and comments

The CHW consumption level increased by about 150 Btu/day/ft². The CHW was estimated by model for the month. From May 2016 through November 2016 and several days in February 2017, the HHW consumption has been near zero. Starting December 2016 the HHW consumption increased to a range of 56 – 128 Btu/day/ft², but this level may still be a little too low. The HHW was estimated by model for the month.

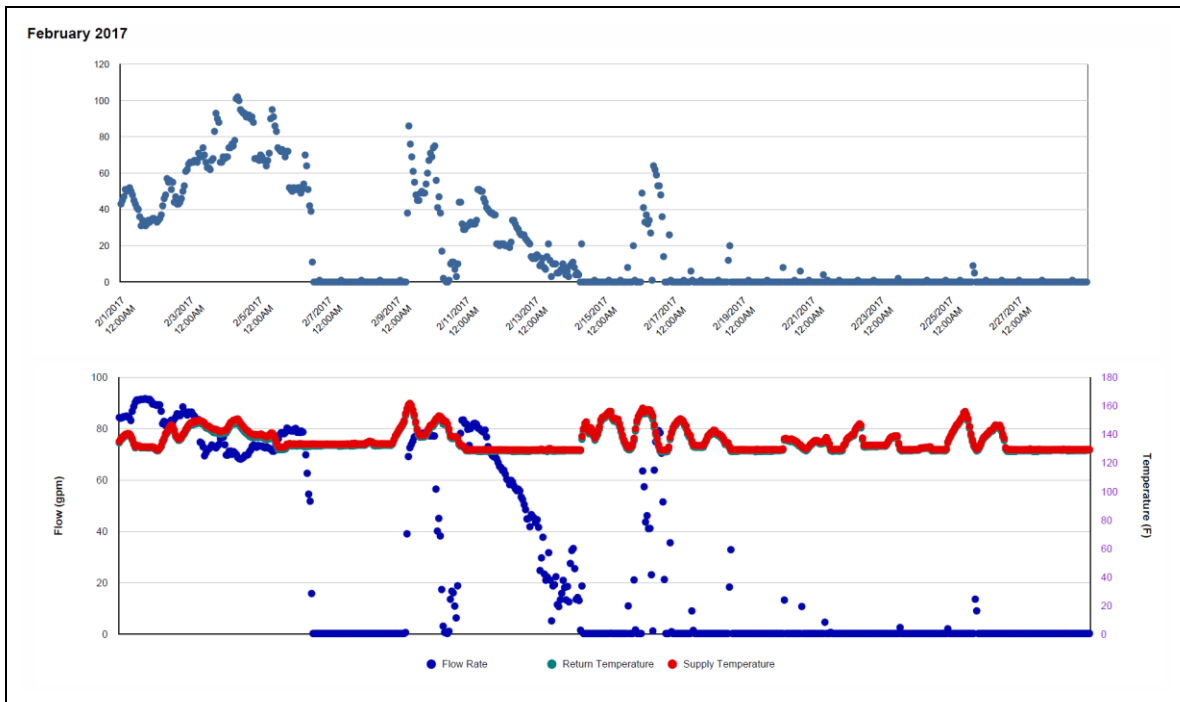
Explanatory Figure: 13 months energy balance plot with original data



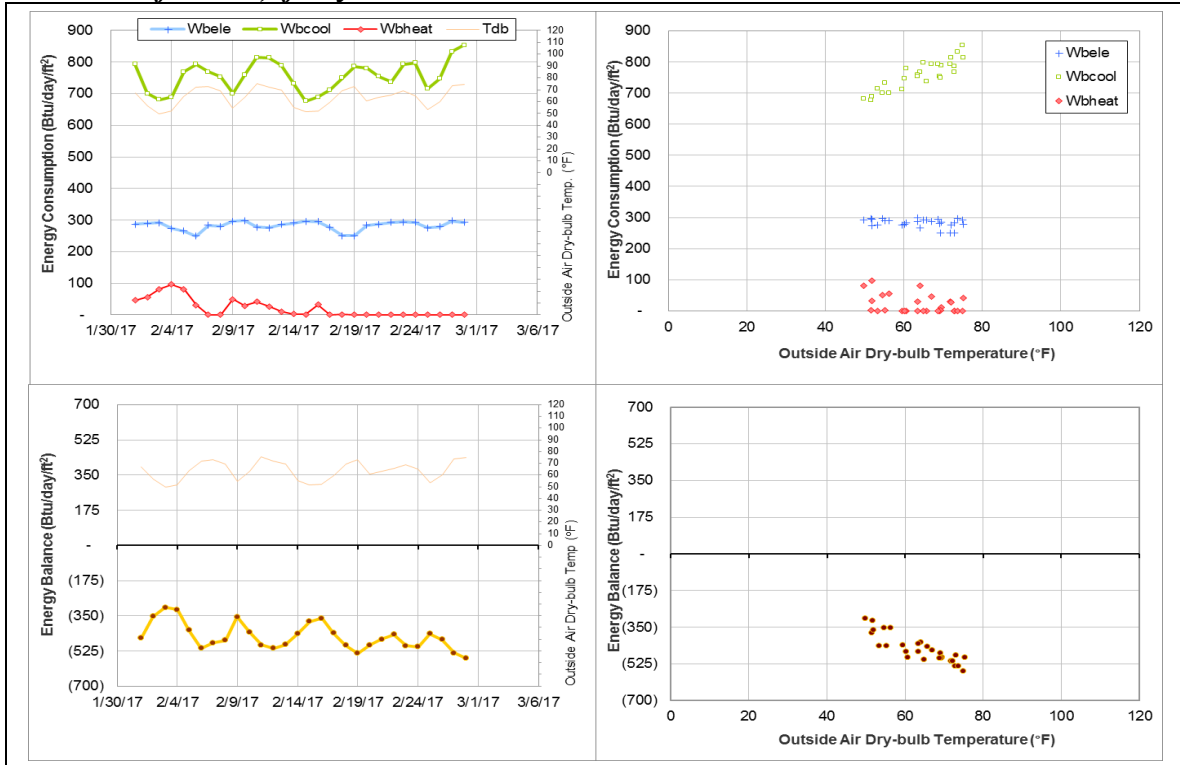
Explanatory Figure: Time series plots of hourly CHW energy consumption, flow rate, and supply and return temperatures from utilities office. (February 2017)



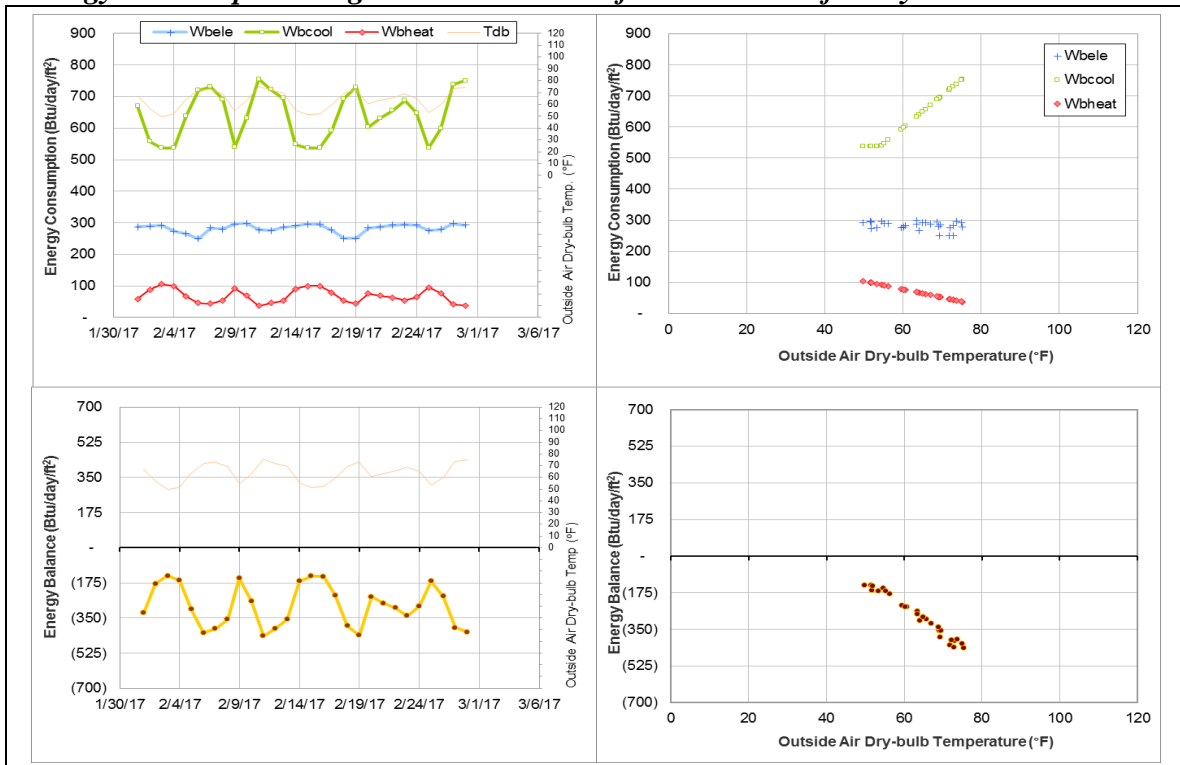
Explanatory Figure: Time series plots of hourly HHW energy consumption, flow rate, and supply and return temperatures from utilities office. (February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Entomology Research Lab (TAMU Bldg #815)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
ELE	005799	27	2/2/2017 – 2/28/2017	Model

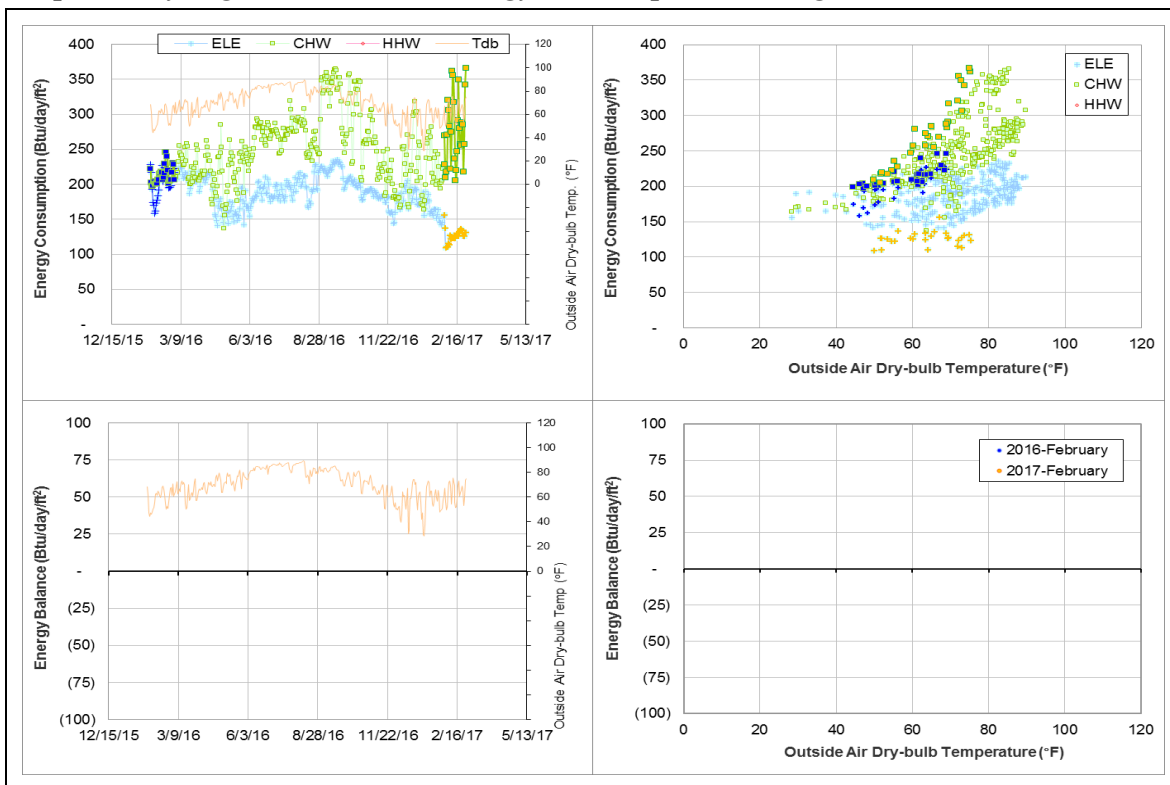
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
ELE	The consumption level has decreased suddenly.	2/2/2017 – 2/28/2017

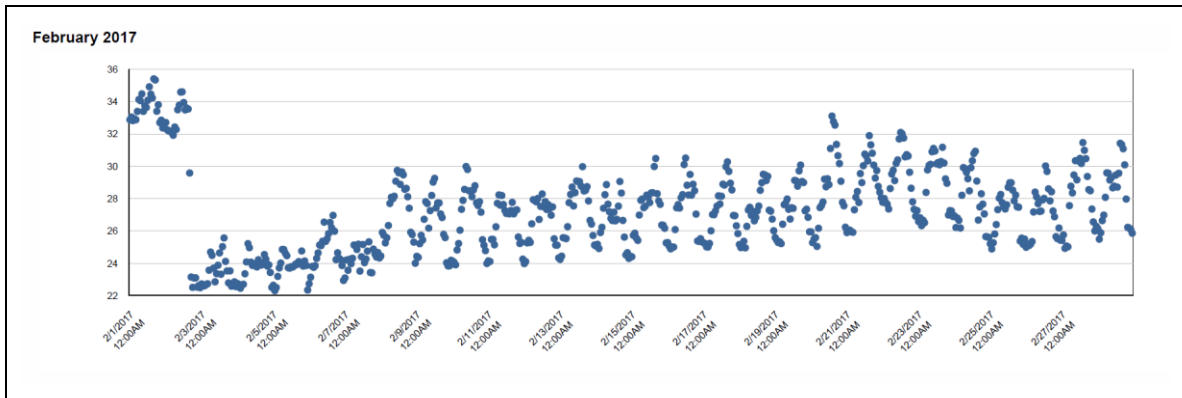
Quantitative descriptions and comments

The ELE consumption level suddenly dropped on 2/2/2017 by approximately 10 kWh/h (~30%).

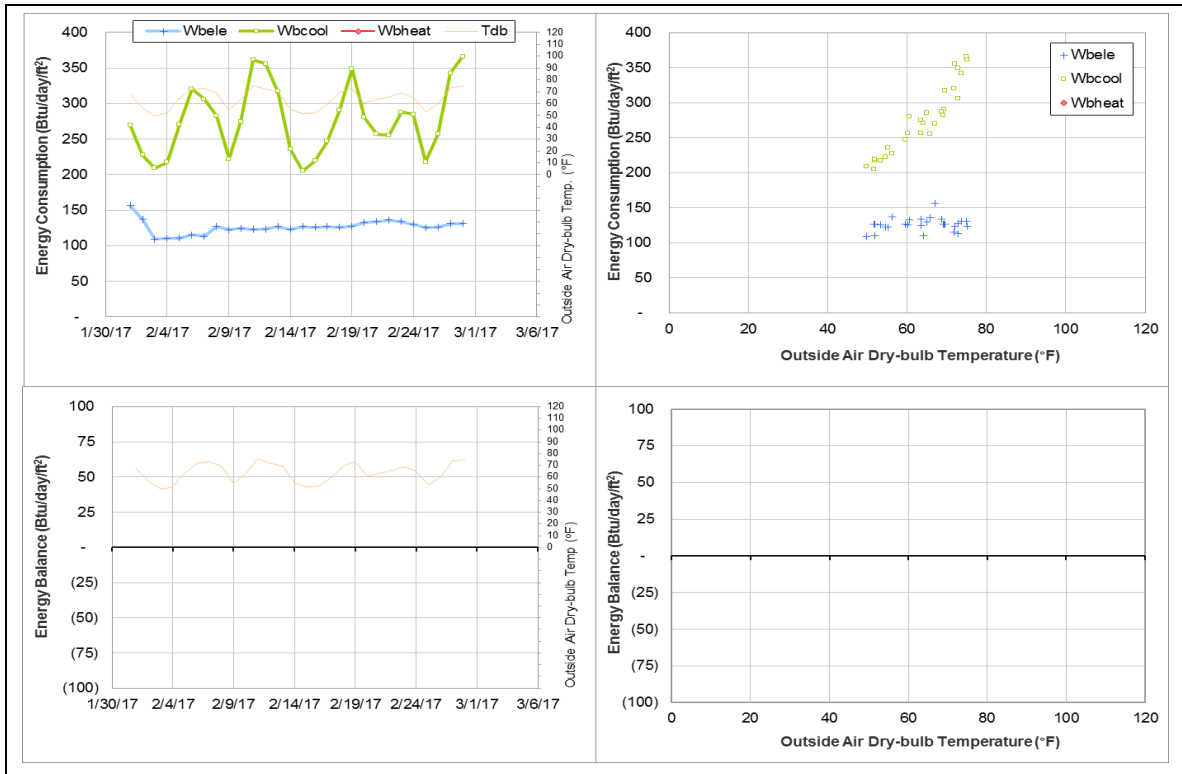
Explanatory Figure: 13 months energy balance plot with original data.



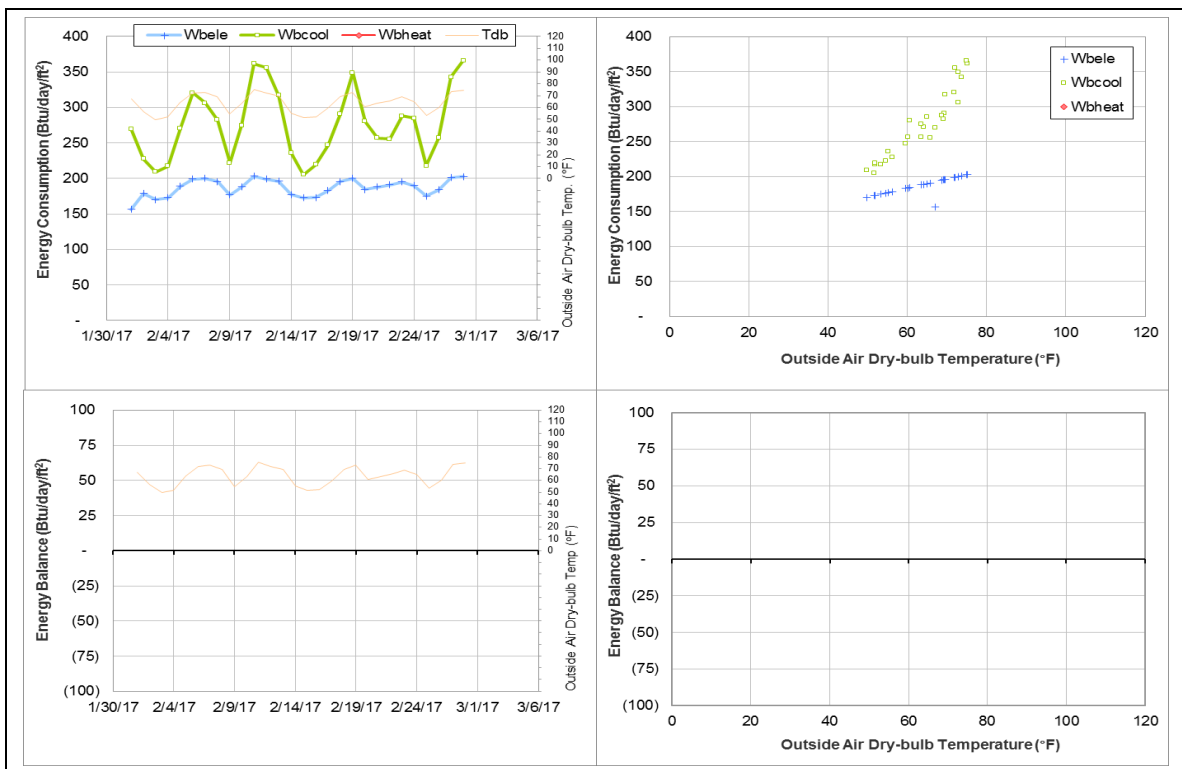
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (ELE during February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Vivarium III (TAMU Bldg #1020)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	005997	28	2/1/2017 – 2/28/2017	Model
HHW	006001	28	2/1/2017 – 2/28/2017	Model

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The CHW consumption pattern level has increased and flattened out at cooler temperatures.	1/14/2016 – Ongoing
HHW	The HHW consumption is too low.	12/1/2015 – Ongoing
Energy Balance	The energy balance is too low.	12/1/2015 – Ongoing

Changes in sensor readings related to the detected issues

Energy Type	Meter ID	Period	Type	Description
CHW	005997	12/1/2016 – Ongoing	Delta-T	Increased
HHW	006001	12/1/2015 – Ongoing	Flow rate	Periods of near zero

Quantitative descriptions and comments

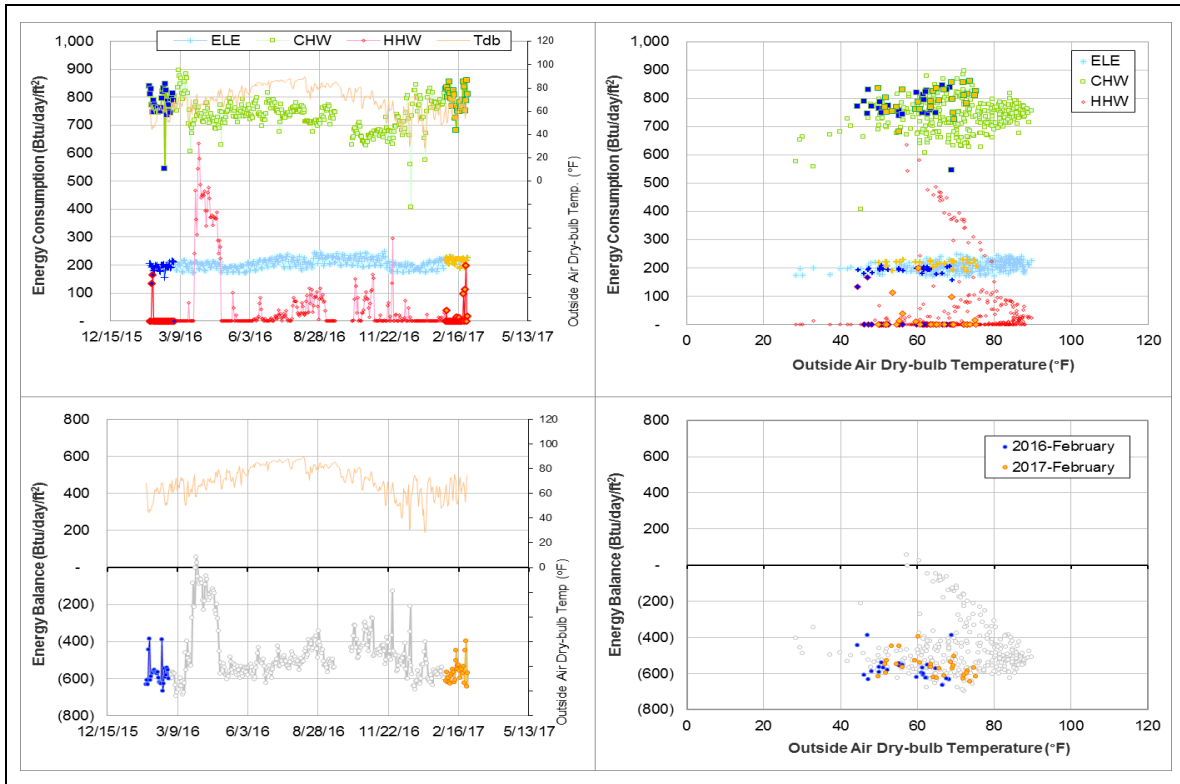
The CHW consumption pattern has increased and flattened out at cooler temperatures starting 1/14/2016. On this day, the CHW Delta-T increased and continues to remain at this higher value. This appears to be a long-term issue resulting in CHW estimates since January 2016 with the exception of the summer period June 2016 – August 2016.

In addition, the HHW consumption is lower than expected for this building. The flow rate is near zero for most of the month. This has been a long-term issue over the past 14 months resulting in HHW estimates. The exceptions being May, which had a flow rate range of 25-65 gpm, and the summer period of June 2016 – August 2016, where we would expect low consumption.

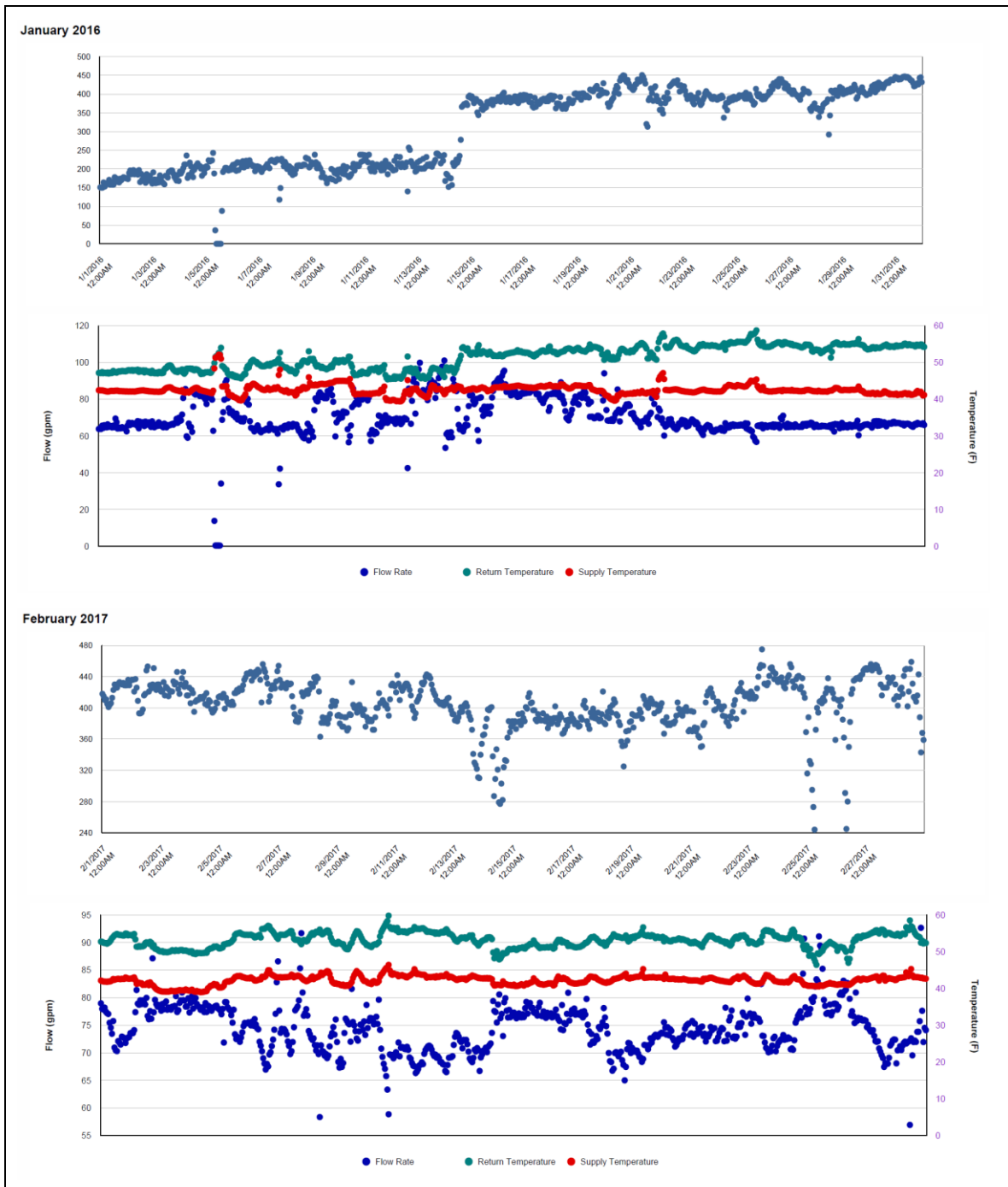
The resulting energy balance with the high CHW consumption and low HHW consumption is too low and does not reach a zero balance at any outside temperature.

Both CHW and HHW consumption for the current month were estimated using a model.

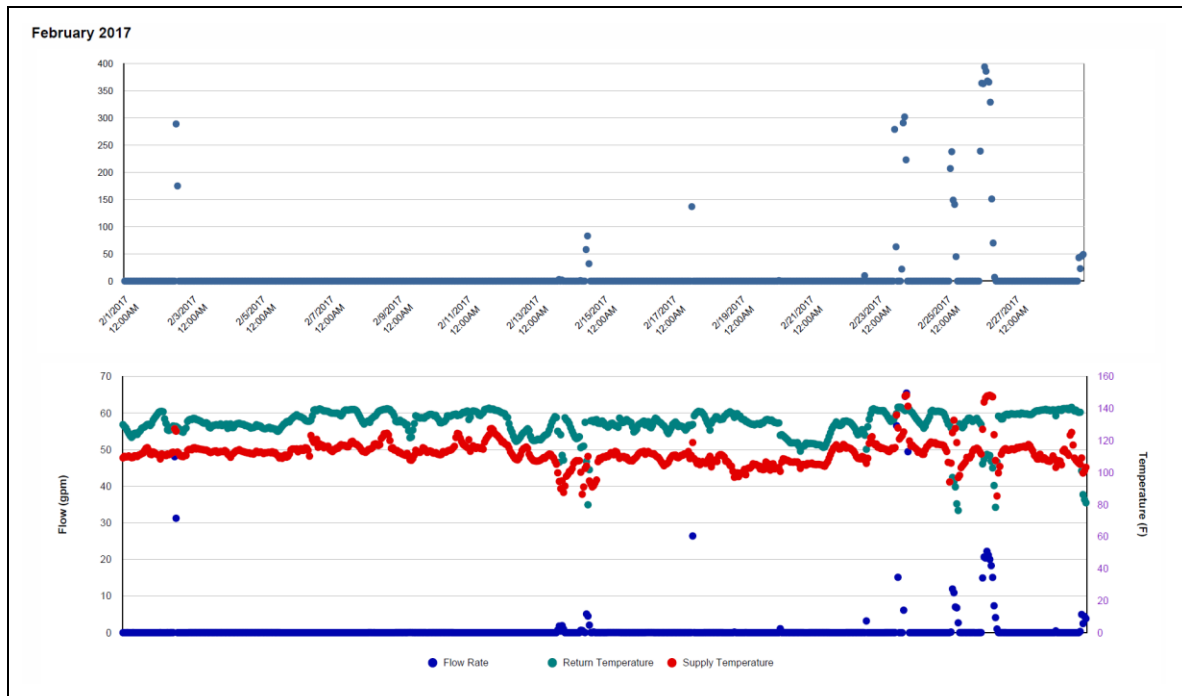
Explanatory Figure: 13 months energy balance plot with original data



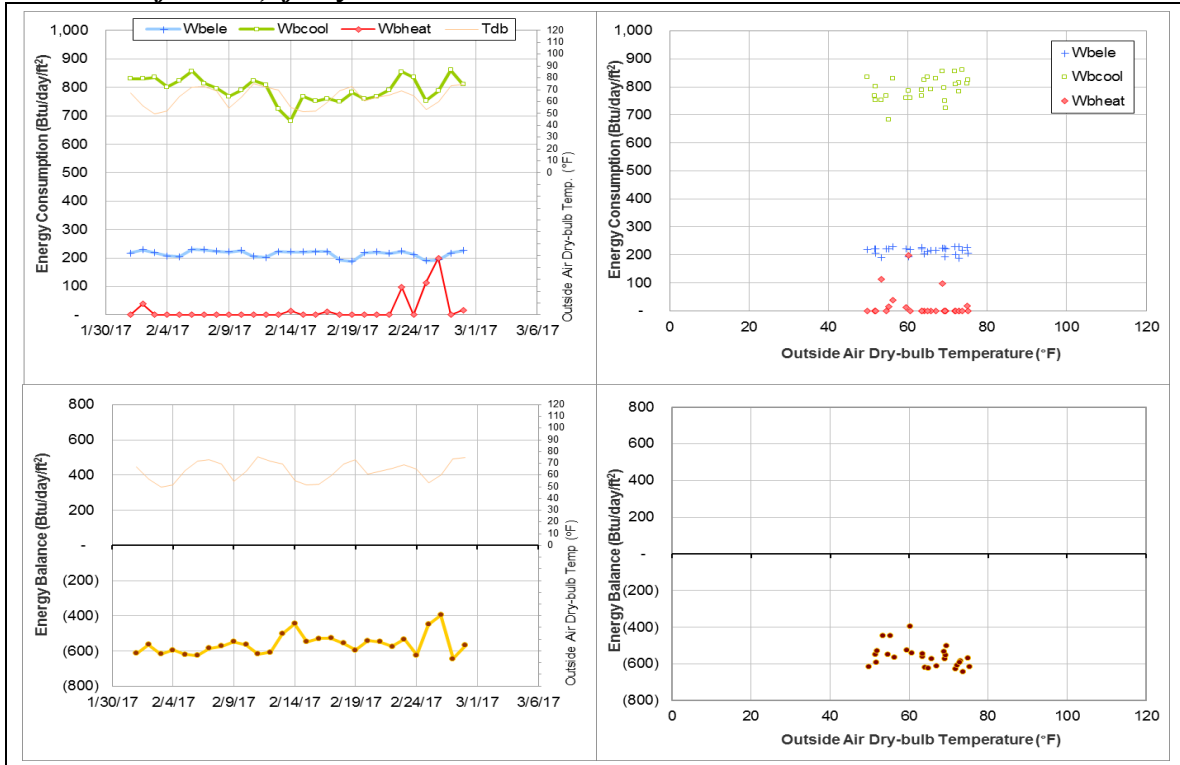
Explanatory Figure: Time series plots of hourly CHW energy consumption, flow rate, and supply and return temperatures from utilities office. (top: January 2016, bottom: February 2017)



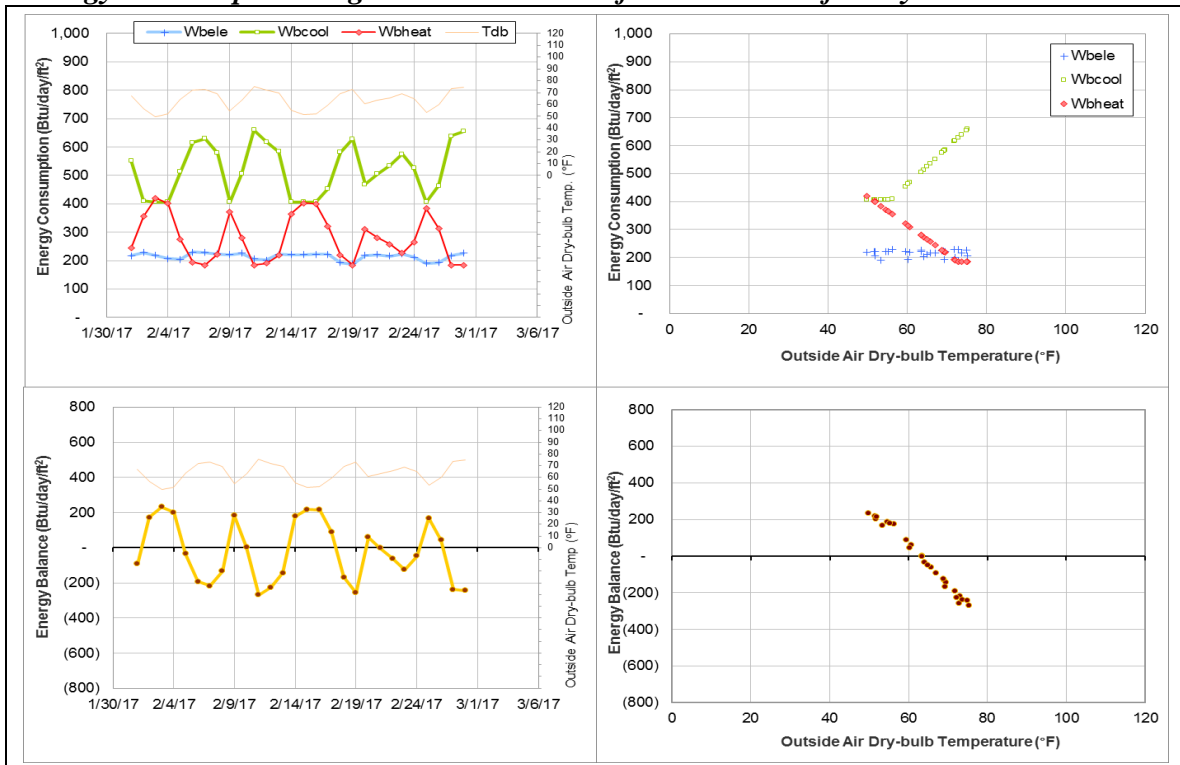
Explanatory Figure: Time series plots of hourly HHW energy consumption, flow rate, and supply and return temperatures from utilities office. (February 2017)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Southern Crop Improvement Greenhouse (TAMU Bldg #1512)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
ELE	005931	28	2/1/2017 – 2/28/2017	Model

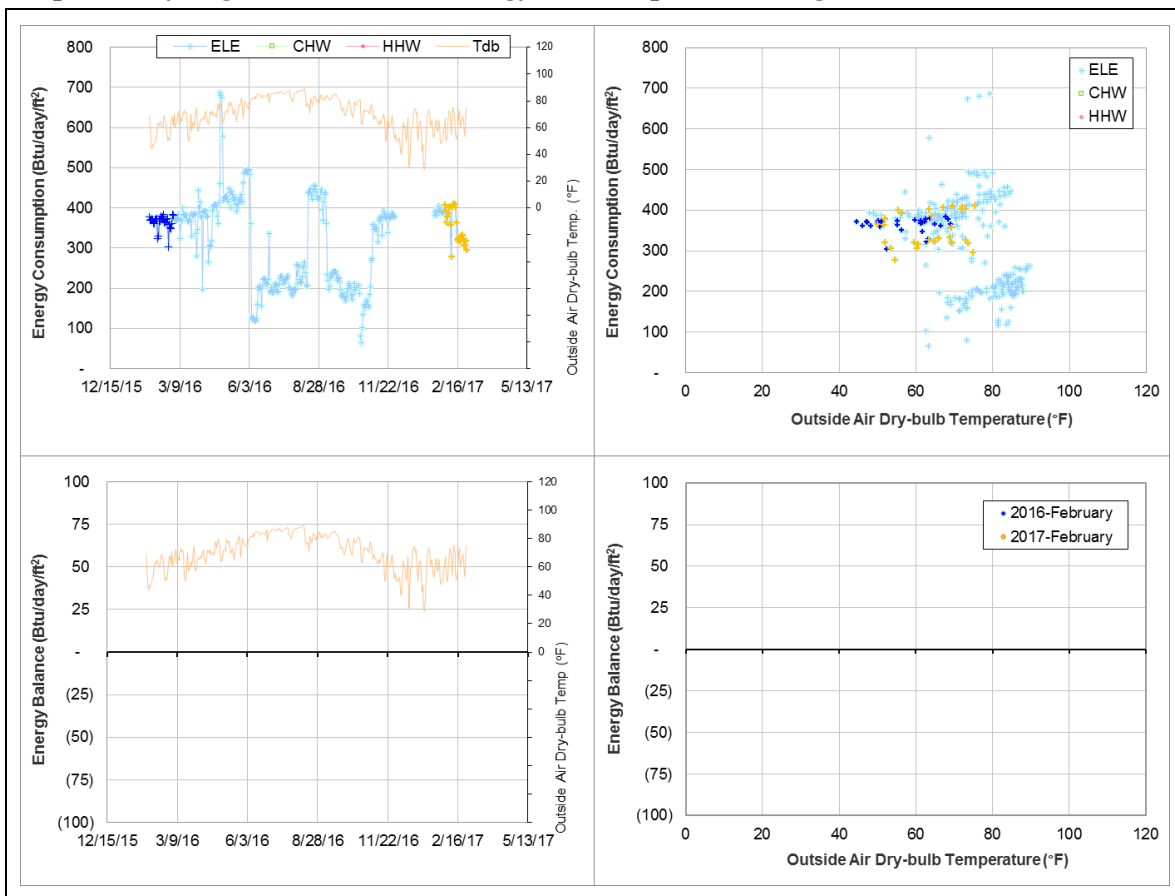
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
ELE	The ELE consumption increased.	1/19/2017 – Ongoing

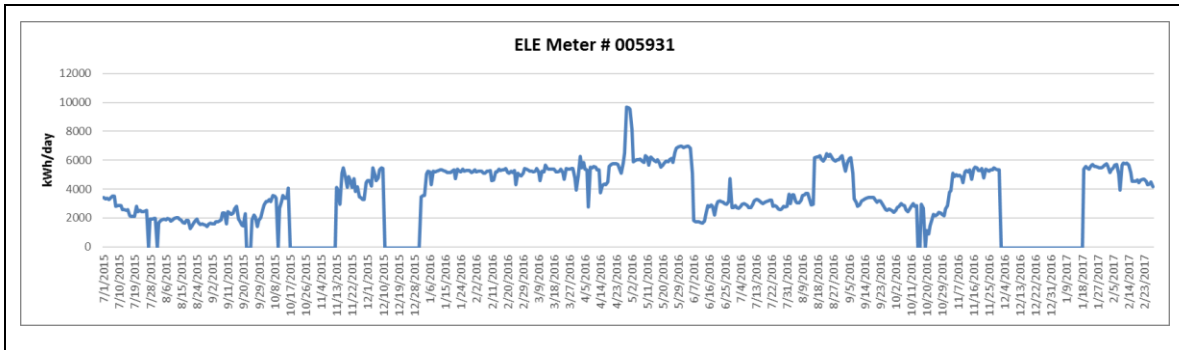
Quantitative descriptions and comments

The ELE consumption level has changed frequently since July 2015 as shown in the time series plot below (see explanatory figure). During the period of 2/1/2017 – 2/28/2017 it increased to the higher consumption pattern. The ELE consumption was estimated for this period using a model based on data during 7/1/2014 – 6/30/2015 when the consumption was stable.

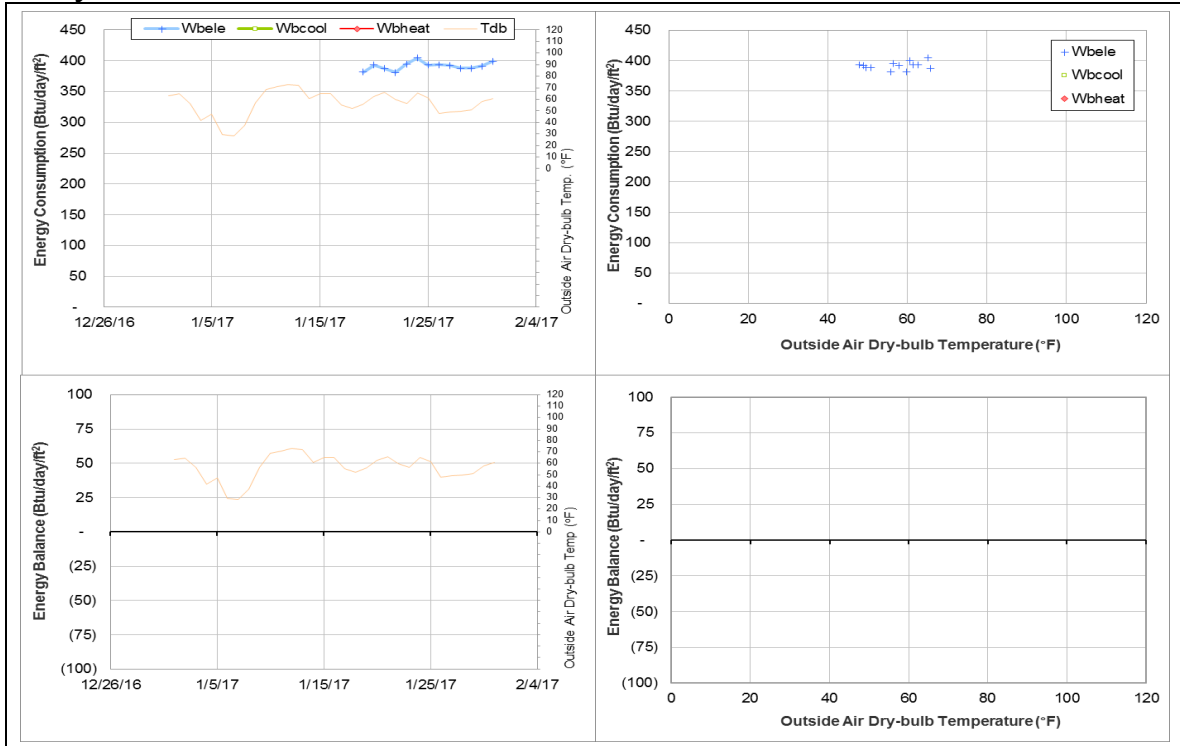
Explanatory Figure: 13 months energy balance plot with original data



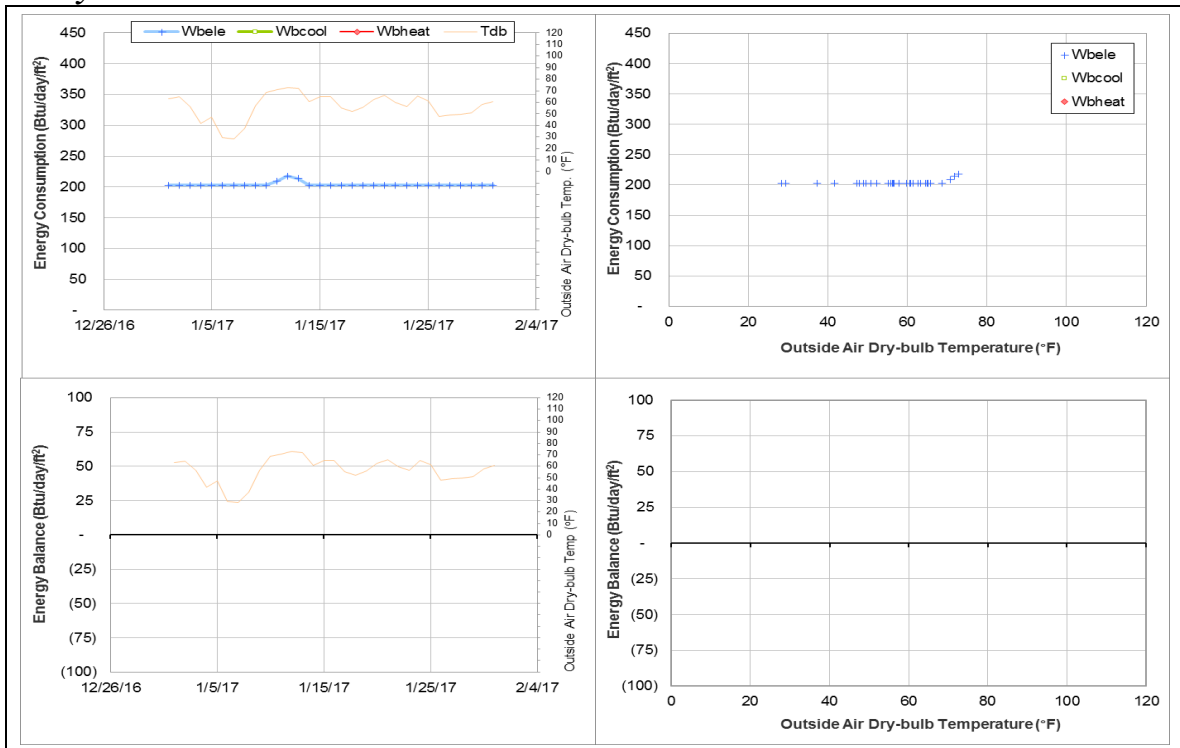
Explanatory Figure: Time series plot using ELE meter #005931 for 7/1/2015 – 2/28/2017. Note the several changes in electricity pattern over the period.



Energy balance plot using the original ELE, CHW and HHW data for the month of analysis.



Energy balance plot using the estimated ELE, CHW and HHW data for the month of analysis



TX School of Rural Public Health (TAMU Bldg # 1518, 1519, 1520)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
ELE	005274	28	2/1/2017 – 2/28/2017	Switch with 005275
ELE	005275	28	2/1/2017 – 2/28/2017	Switch with 005274

Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
ELE (005274)	The consumption level increased largely.	8/14/2015 - ongoing
ELE (005275)	The consumption level decreased largely.	8/14/2015 - ongoing

Comments

ELE meter ID# 005274 serves TX School of Rural Public Health B and ELE meter ID# 005275 is for TX School of Rural Public Health C.

The ELE consumption levels for these two meters had a sudden change on 8/14/2015. The consumption level for meter ID# 005274 increased by approximate 80 kWh/h (~ 100%) and the consumption level for meter ID# 005275 decreased by around 80 kWh/h (~50%). The change observed on 8/14/2016 12:00 AM (see below explanatory figure) suggests that the two meters were switched and may need to be investigated.

Explanatory Figure: The time series plot of hourly electricity consumption for two ELE meters #005274 and# 005275

Time	Cumulative reading	Hourly Consumption	MeterID	Time	Cumulative reading	Hourly Consumption	MeterID
08/13/2015 12:00:00 PM	2930064.013	84.262	005274	08/13/2015 12:00:00 PM	4741958.002	170.658	005275
08/13/2015 01:00:00 PM	2930068.589	84.576	005274	08/13/2015 01:00:00 PM	4742132.336	174.334	005275
08/13/2015 02:00:00 PM	2931051.959	83.37	005274	08/13/2015 02:00:00 PM	4742303.554	171.218	005275
08/13/2015 03:00:00 PM	2931146.799	94.84	005274	08/13/2015 03:00:00 PM	4742483.983	180.129	005275
08/13/2015 04:00:00 PM	2931240.505	83.706	005274	08/13/2015 04:00:00 PM	4742662.753	179.07	005275
08/13/2015 05:00:00 PM	2931324.169	83.664	005274	08/13/2015 05:00:00 PM	4742832.009	169.256	005275
08/13/2015 06:00:00 PM	2931399.91	75.741	005274	08/13/2015 06:00:00 PM	4742993.53	161.521	005275
08/13/2015 07:00:00 PM	2931472.181	72.271	005274	08/13/2015 07:00:00 PM	4743149.675	156.145	005275
08/13/2015 08:00:00 PM	2931543.838	71.657	005274	08/13/2015 08:00:00 PM	4743305.9	156.225	005275
08/13/2015 09:00:00 PM	2931613.306	69.468	005274	08/13/2015 09:00:00 PM	4743462.097	156.197	005275
08/13/2015 10:00:00 PM	2931672.706	59.4	005274	08/13/2015 10:00:00 PM	4743610.221	148.124	005275
08/13/2015 11:00:00 PM	2931733.072	60.366	005274	08/13/2015 11:00:00 PM	4743745.645	135.424	005275
08/14/2015 12:00:00 AM	4743876.03	130.385	005274	08/14/2015 12:00:00 AM	2931791.19	58.118	005275
08/14/2015 01:00:00 AM	4744008.406	132.376	005274	08/14/2015 01:00:00 AM	2931840.35	58.16	005275
08/14/2015 02:00:00 AM	4744141.74	133.334	005274	08/14/2015 02:00:00 AM	2931908.534	59.184	005275
08/14/2015 03:00:00 AM	4744272.553	130.813	005274	08/14/2015 03:00:00 AM	2931966.686	58.152	005275
08/14/2015 04:00:00 AM	4744404.045	131.492	005274	08/14/2015 04:00:00 AM	2932023.899	56.903	005275
08/14/2015 05:00:00 AM	4744534.38	130.335	005274	08/14/2015 05:00:00 AM	2932080.05	56.461	005275
08/14/2015 06:00:00 AM	4744667.111	132.731	005274	08/14/2015 06:00:00 AM	2932137.05	57	005275
08/14/2015 07:00:00 AM	4744820.038	152.927	005274	08/14/2015 07:00:00 AM	2932232.983	95.933	005275
08/14/2015 08:00:00 AM	4744972.221	152.183	005274	08/14/2015 08:00:00 AM	2932319.162	86.179	005275
08/14/2015 09:00:00 AM	4745134.467	162.246	005274	08/14/2015 09:00:00 AM	2932404.691	85.529	005275
08/14/2015 10:00:00 AM	4745308.905	174.438	005274	08/14/2015 10:00:00 AM	2932489.976	85.285	005275
08/14/2015 11:00:00 AM	4745476.832	167.927	005274	08/14/2015 11:00:00 AM	2932564.419	74.443	005275
08/14/2015 12:00:00 PM	4745634.44	157.608	005274	08/14/2015 12:00:00 PM	2932634.064	69.645	005275
08/14/2015 01:00:00 PM	4745798.345	154.805	005274	08/14/2015 01:00:00 PM	2932704.723	70.659	005275
08/14/2015 02:00:00 PM	4745949.369	160.024	005274	08/14/2015 02:00:00 PM	2932777.373	72.65	005275
08/14/2015 03:00:00 PM	4746110.346	160.977	005274	08/14/2015 03:00:00 PM	2932845.908	68.535	005275
08/14/2015 04:00:00 PM	4746270.303	160.957	005274	08/14/2015 04:00:00 PM	2932920.525	74.617	005275
08/14/2015 05:00:00 PM	4746431.347	160.444	005274	08/14/2015 05:00:00 PM	2932996.835	76.31	005275
08/14/2015 06:00:00 PM	4746586.415	155.068	005274	08/14/2015 06:00:00 PM	2933065.518	68.683	005275
08/14/2015 07:00:00 PM	4746727.476	141.061	005274	08/14/2015 07:00:00 PM	2933127.559	62.041	005275
08/14/2015 08:00:00 PM	4746864.372	136.896	005274	08/14/2015 08:00:00 PM	2933195.384	67.825	005275
08/14/2015 09:00:00 PM	4747004.372	140	005274	08/14/2015 09:00:00 PM	2933263.832	68.248	005275
08/14/2015 10:00:00 PM	4747137.886	133.514	005274	08/14/2015 10:00:00 PM	2933323.26	59.628	005275
08/14/2015 11:00:00 PM	4747269.569	131.683	005274	08/14/2015 11:00:00 PM	2933382.3	59.04	005275

Gilchrist TTI Building (TAMU Bldg #1600)

Estimated data

Energy Type	Meter ID	Number of Days	Period	Estimation Method
CHW	002649	7	2/2/2017 – 2/8/2017	Model
HHW	002653	7	2/2/2017 – 2/8/2017	Model

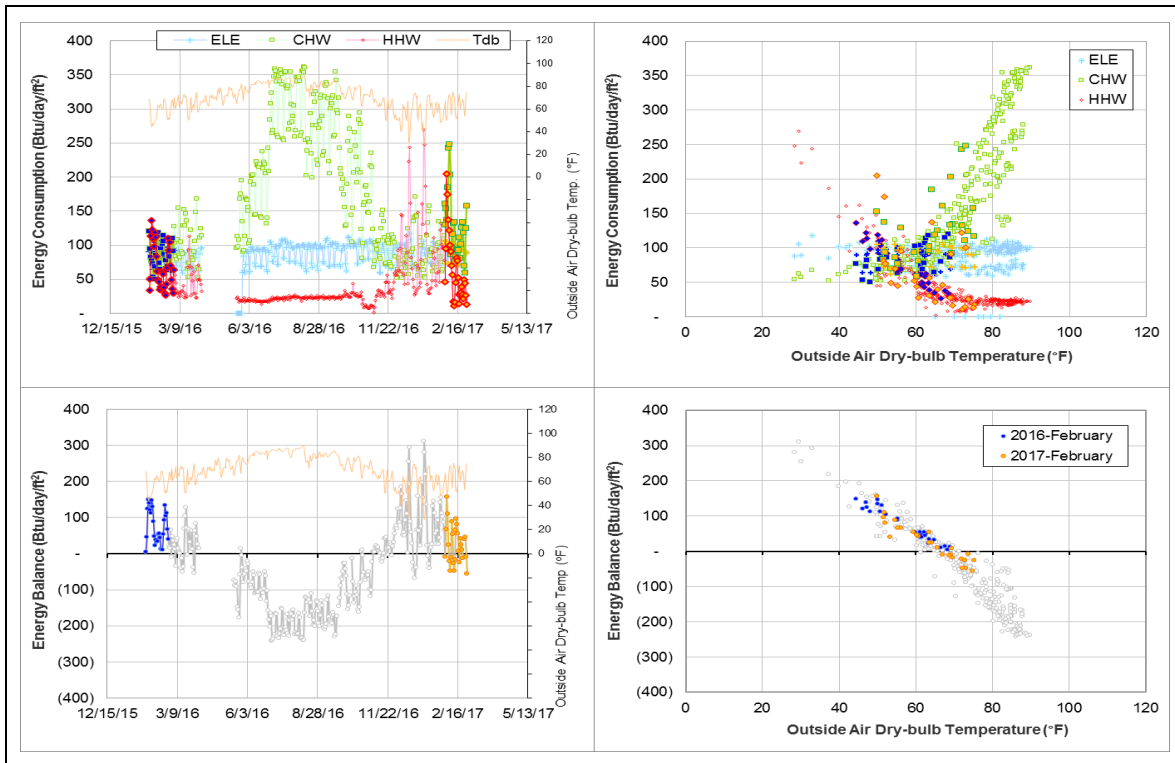
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The CHW consumption increased for a short period.	2/2/2017 – 2/8/2017
HHW	The HHW consumption increased for a short period.	2/2/2017 – 2/8/2017

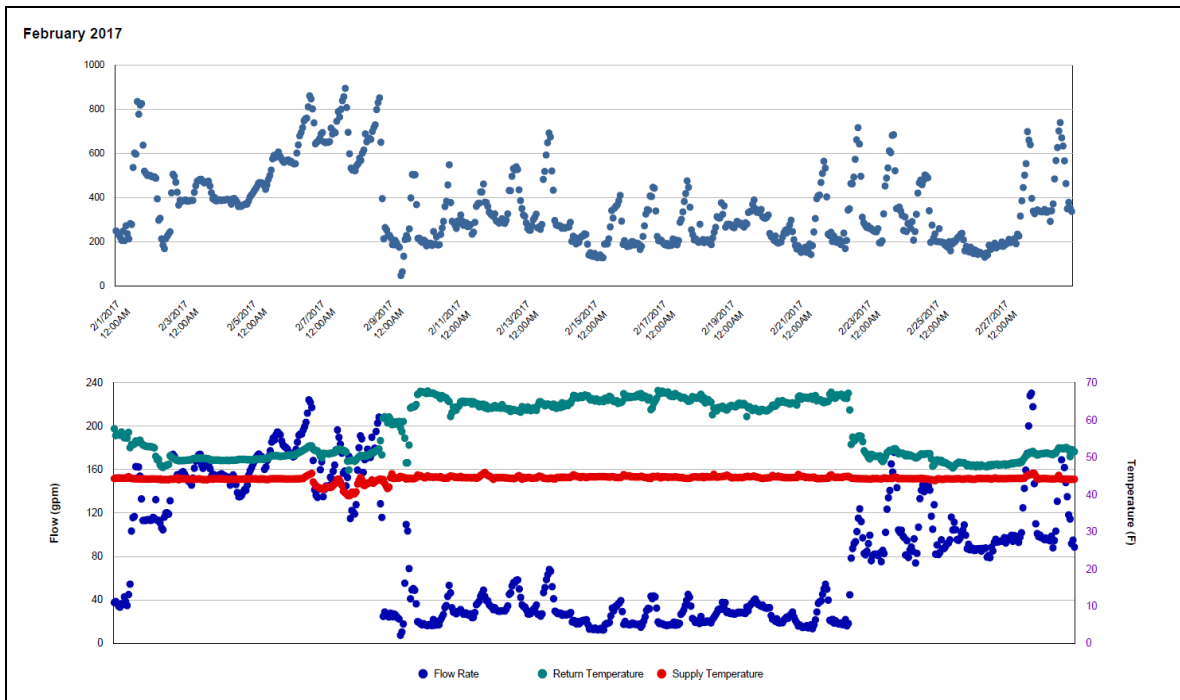
Quantitative descriptions and comments

Both the CHW and HHW consumption increased for the period 2/2/2017 – 2/8/2017 due to an increase in flow rate. The consumption was estimated by model for this period.

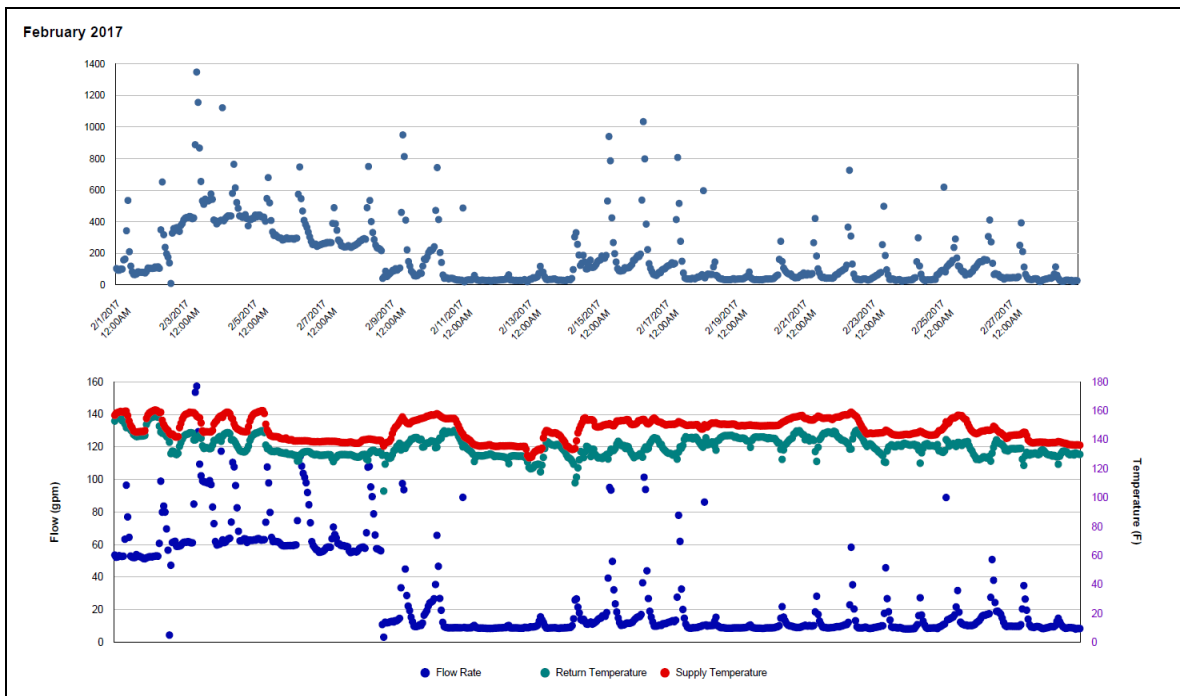
Explanatory Figure: 13 months energy balance plot with original data



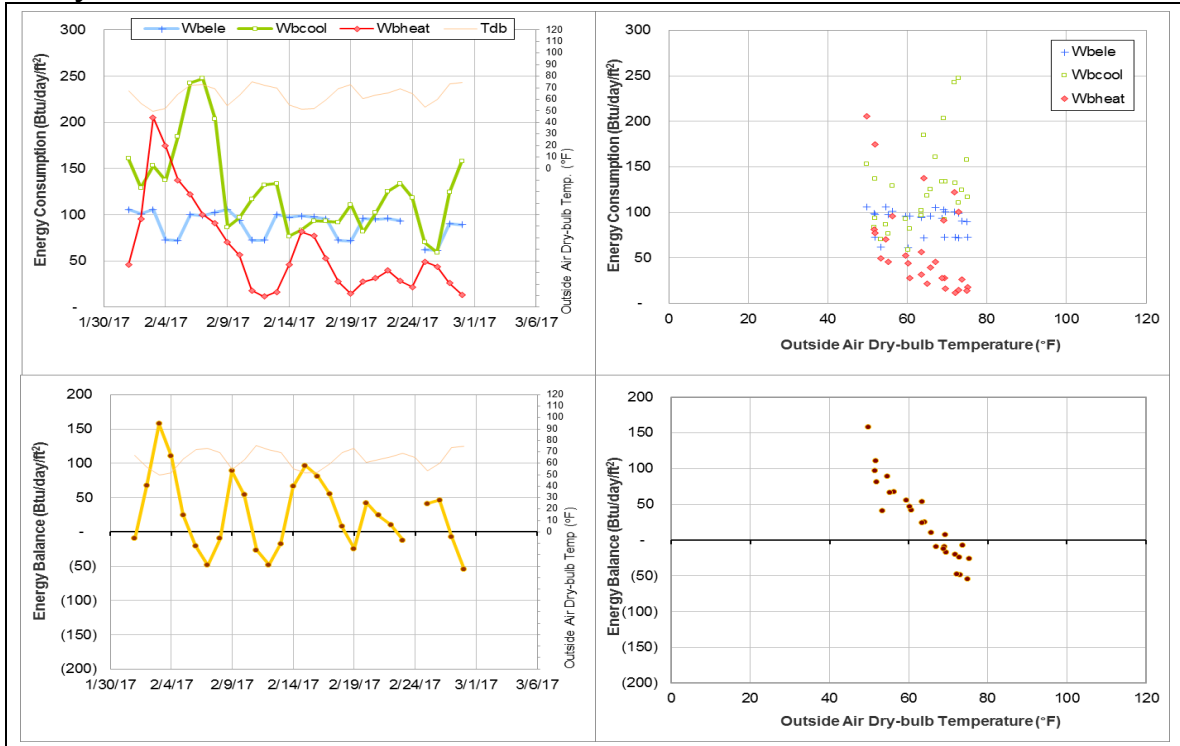
Explanatory Figure: Time series plots of hourly CHW energy consumption, flow rate, and supply and return temperatures from utilities office. (February 2017)



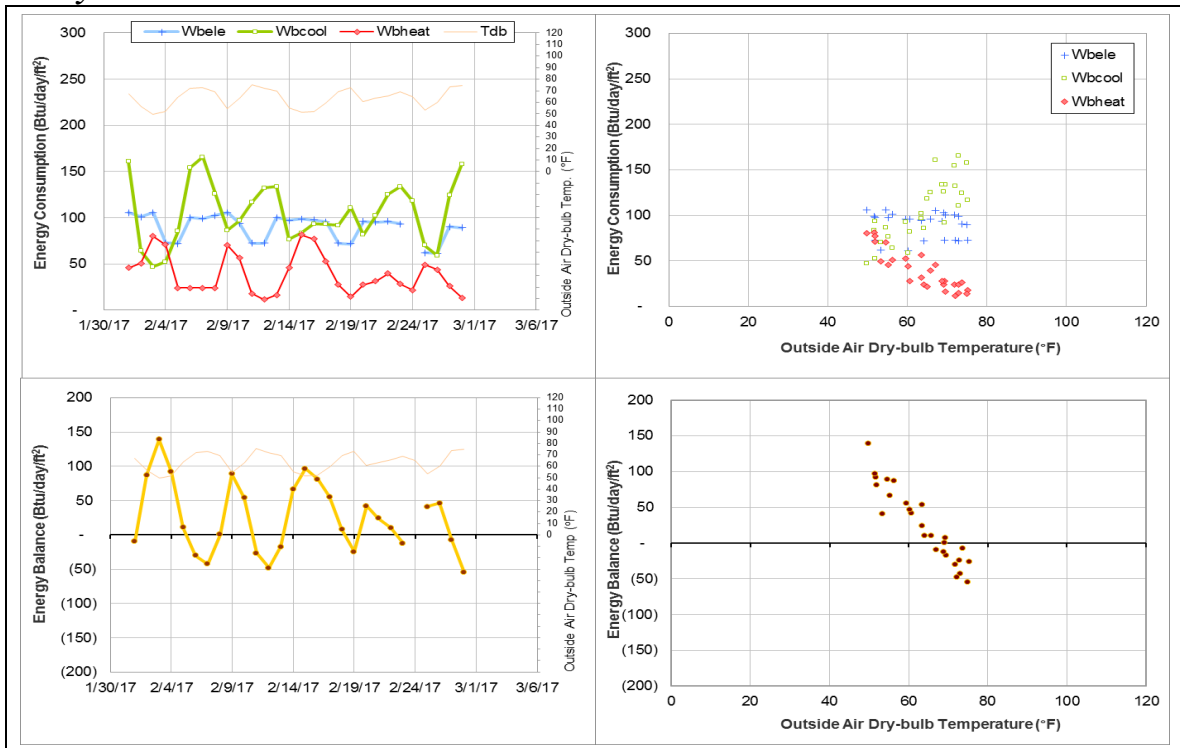
Explanatory Figure: Time series plots of hourly HHW energy consumption, flow rate, and supply and return temperatures from utilities office. (February 2017)



Energy balance plot using the original ELE, CHW and HHW data for the month of analysis.



Energy balance plot using the estimated ELE, CHW and HHW data for the month of analysis



II-3 Meters with Significant Issues in Energy Consumption Data

In this section, significant issues in the data behavior are described. On the contrary to the section II–2, alternative consumption is not estimated for some reasons: presence of continuous problems since the beginning of the data acquisition, unbalanced energy uses in the past data, changes in the consumption patterns without evidence of data problems, etc. Table II–3 gives a list of meters included in this section.

Table II-3 Meters with significant issues in the consumption data during February 2017

Building No.	Building Name	MeterID	Type	Building No.	Building Name	MeterID	Type
0290	Wells Residence Hall	001984	CHW	0499	Engineering Innovation Center	002672	CHW
		001988	HHW	0506	Nagle Hall	001484	ELE
0291	Rudder Residence Hall	002132	CHW			003619	CHW
		002136	HHW			003623	HHW
0293	Appelt Residence Hall	002062	CHW	0512	All Faiths Chapel	004288	CHW
		002066	HHW	0524	Blocker Building	002918	HHW
0353	Bright Aerospace Building	002746	CHW	0740	McNew Laboratory	005874	ELE
0398	Langford Architecture Center Building A	003951	CHW			005974	CHW
		003955	HHW			005968	HHW
0419	Legett Residence Hall	000031	ELE	0815	Entomology Research Lab	006043	CHW
		002218	CHW	0880	TVMC-Small Animal Building	005962	HHW
		002222	HHW	1026	Veterinary Medicine Administration	006053	HHW
0434	Luedecke Building (Cyclotron)	005555	ELE	1146	Biological Control Facility	005887	CHW
		005558	ELE	1156	Physical Plant Administration & Shops	007679	CHW
		006664	CHW	1197	Veterinary Research Building	006355	ELE
		006668	HHW			006359	ELE
0433	Mosher Residence Hall	009083	ELE	1504	Reynolds Medical Sciences Building	003975	ELE
		002485	CHW			003989	CHW
		002489	HHW			003993	HHW
0443	Oceanography & Meteorology Building	006388	CHW	1525	Nuclear Magnetic Resonance Facility	006716	HHW
		006392	HHW	1537	Agriculture Public Building	009620	ELE
0445	Teague Research Center	006411	CHW			009621	ELE
		006415	HHW			009622	CHW
0517	DPC Annex	006563	CHW			009623	HHW
		006567	HHW	1558	Cox-McFerrin Center for Aggie Basketball	007577	HHW
0446	Rudder Theatre Complex	002977	ELE	1559	West Campus Parking Garage	004322	CHW
		002980	ELE	1560	Student Recreation Center	000363	ELE
		004297	CHW			000366	ELE
		004309	HHW			002933	CHW
0463	Psychology Building	001575	ELE			002937	HHW
		002941	CHW	1601	International Ocean Discovery Building	006351	ELE
		002945	HHW			006382	CHW
0482	Fermier Hall	005878	CHW			008144	CHW
		005881	HHW			008145	HHW
0484	Chemistry Building	007557	ELE	1604	Offshore Technology Research Center	006660	ELE
0492	Civil Engineering Building	005950	CHW	1609	TTI Headquarters	006497	HHW
		005954	HHW	1910	National Center for Therapeutics Manufacturing	007520	HHW
0496	Utilities & Energy Services Central Office	007706	ELE				
		006929	CHW				
		006933	HHW				

Wells Residence Hall (TAMU Bldg #290)

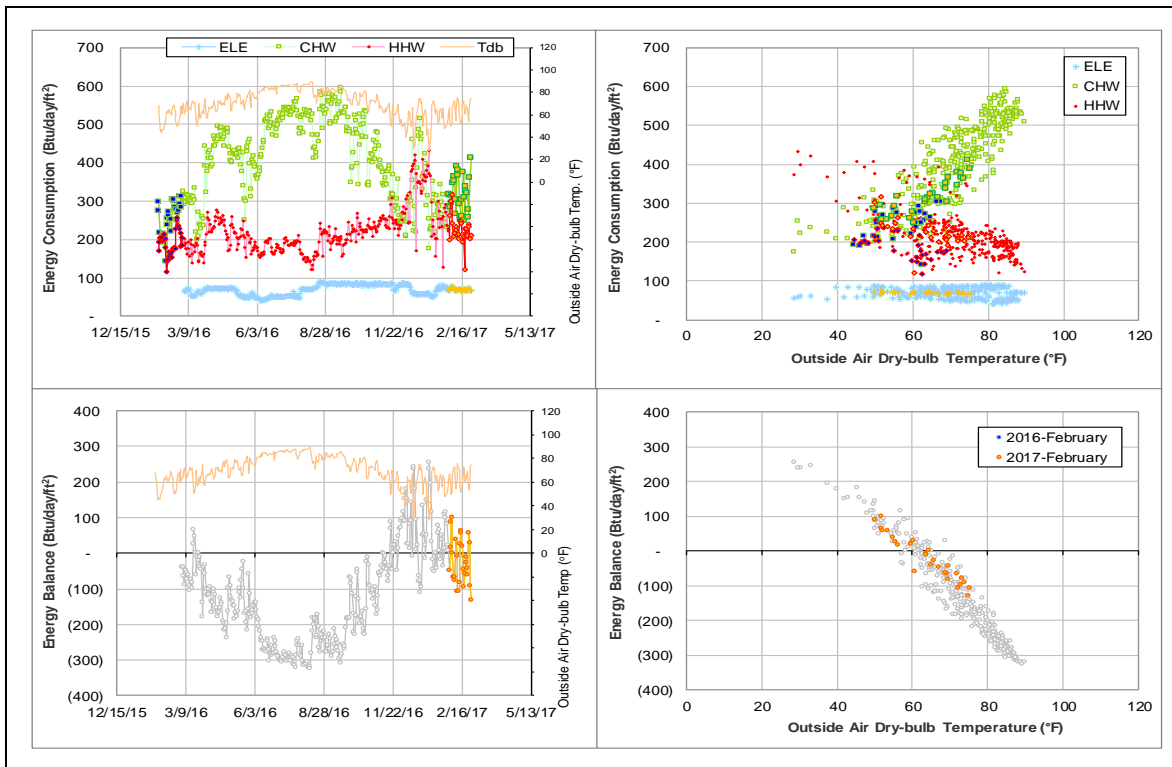
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
Energy Balance	The energy balance level is low. The cross-point temperature is around 60°F.	For several years

Comments

This building has a low level of energy balance load with the cross-point temperature around 60°F. The balance seems to have moved to 65°F due to an increase in HHW flow from 120 gpm to 150 gpm in December 2016, but more data are needed to verify this change. The low E_{BL} level suggests imbalance of metered energy use in the building, but we are not able to determine the cause.

Explanatory Figure: 13 months energy balance plot with original data



Rudder Residence Hall (TAMU Bldg #291)

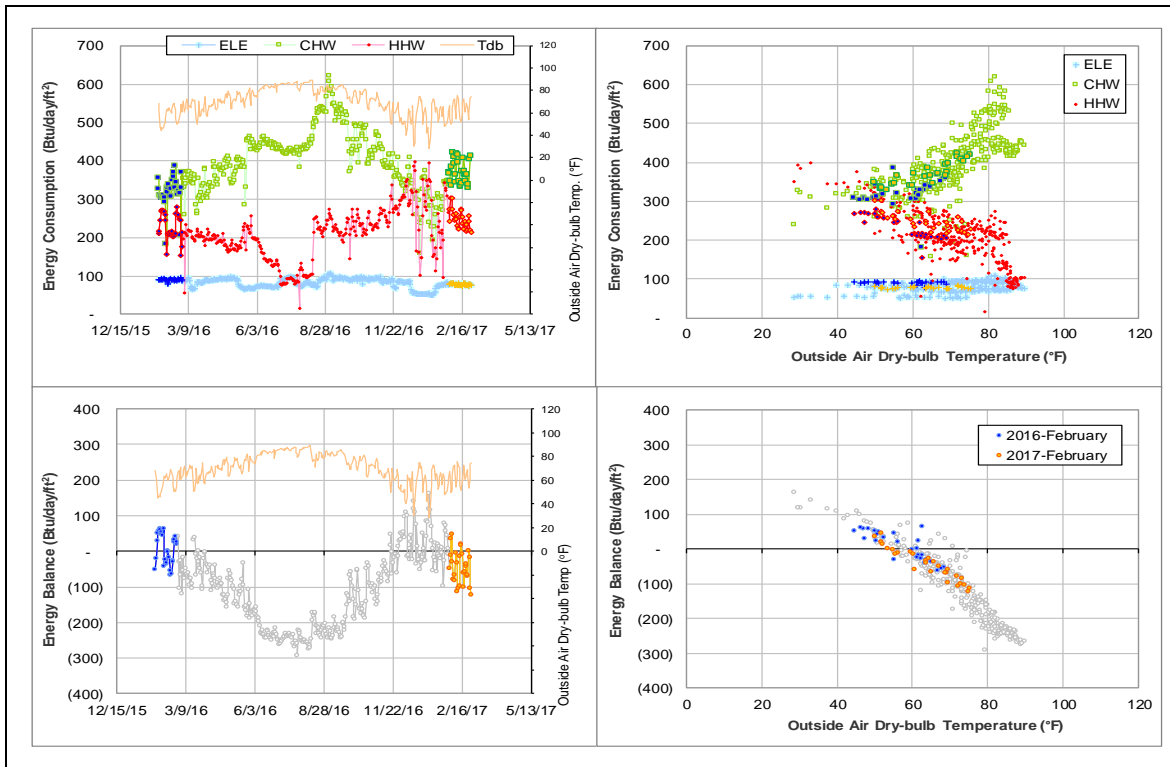
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	Sudden increase by 150 Btu/day/ft ² .	Since August 2016
HHW	Sudden increase by 100 Btu/day/ft ² . The consumption is unstable.	Since August 2016
Energy Balance	The energy balance level is low. The cross-point temperature is around 60°F.	For several years

Comments

This building has a low level of energy balance load with the cross-point temperature around 60°F for years. The low E_{BL} level suggests imbalance of metered energy use in the building, but we are not able to determine the cause.

Explanatory Figure: 13 months energy balance plot with original data



Appelt Residence Hall (TAMU Bldg #293)

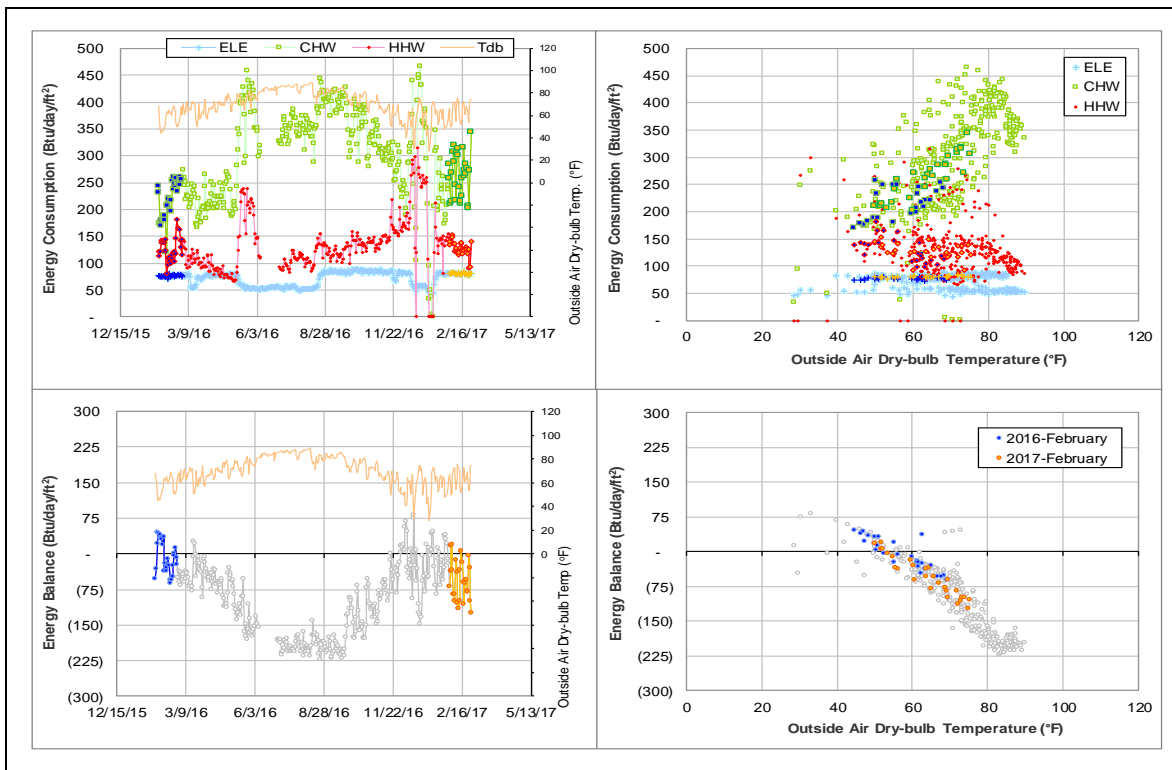
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW and HHW	The consumption level changes frequently	Since December 2014
Energy Balance	The energy balance decreased and the cross-point temperature is around 55°F.	Since January 2015

Comments

Both the CHW and HHW consumption levels have been unstable and changing frequently. The energy balance load was low with the cross-point temperature around 55°F. The low E_{BL} level suggests imbalance of metered energy use in the building, but we are not able to determine the cause.

Explanatory Figure: 13 months energy balance plot with original data



Bright Building (TAMU Bldg #353)

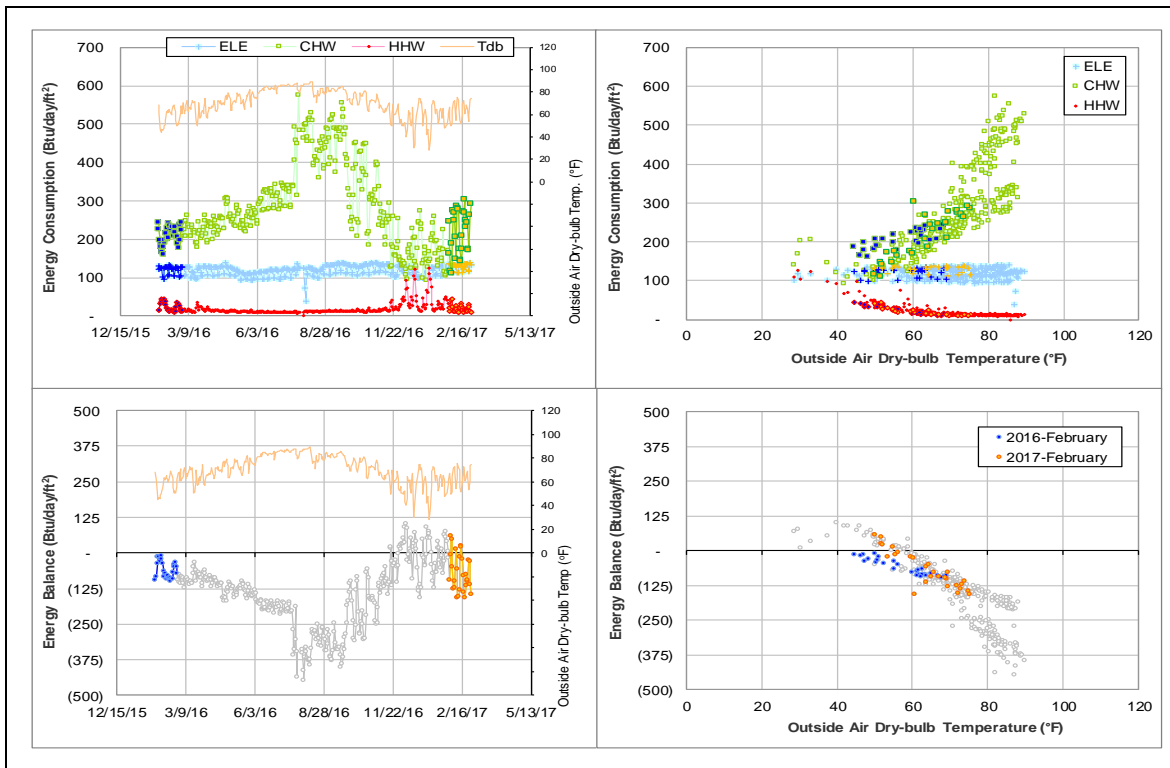
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
Energy Balance	The energy balance level has been low for years. The cross-point temperature was in the range of 40 - 70 °F.	For several years
CHW	The consumption pattern changed.	Since July 2016

Comments

The energy balance load (E_{BL}) of this building has varied but always been low (the cross-point temperature was between 40°F and 70°F) for years. CHW consumption increased greatly on 7/21/2016 and switched to a new pattern with a steeper slope. The cross-point temperature of energy balance is now 60°F.

Explanatory Figure: 13 months energy balance plot with original data



Langford Architecture Center Building A (TAMU BLDG # 398)

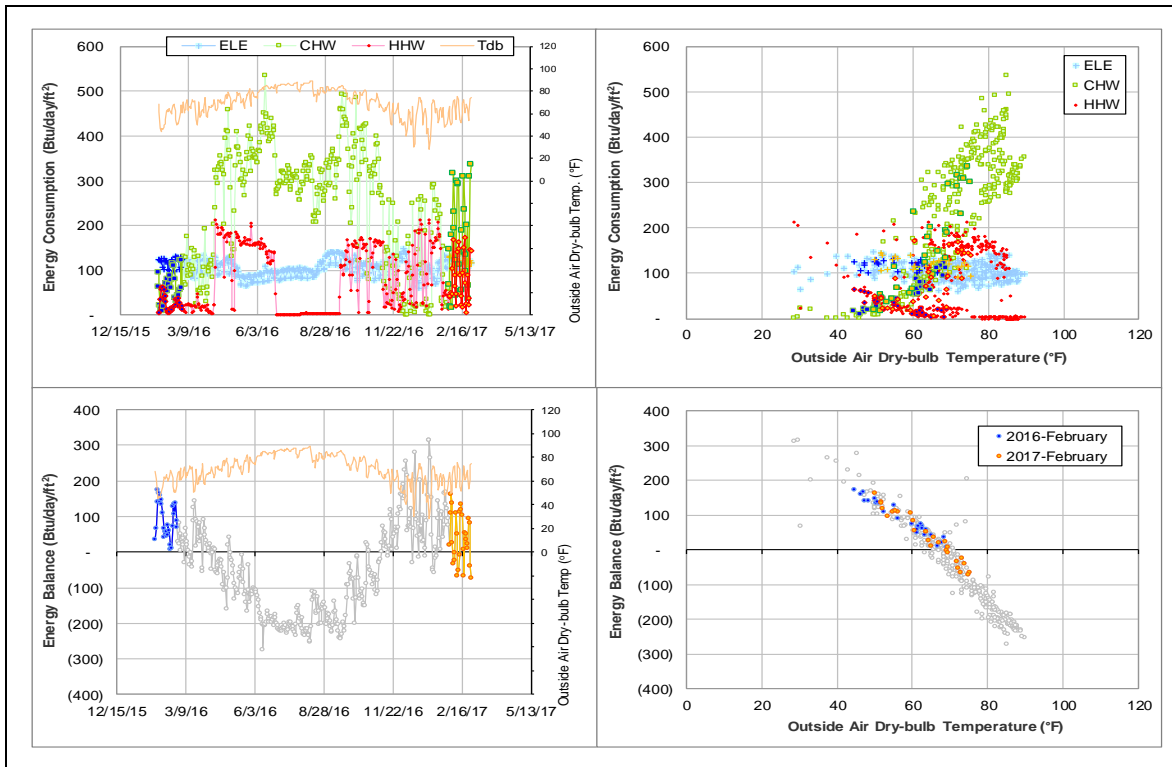
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW and HHW	The consumption has been fluctuating greatly.	For several years

Comments

CHW and HHW consumption has been unstable for several years. HHW flow rate can be seen going up and down between a maximum level and a very low level. The energy balance, however, is not disturbed during these fluctuations.

Explanatory Figure: 13 months energy balance plot with original data



Legett Residence Hall (TAMU BLDG # 419)

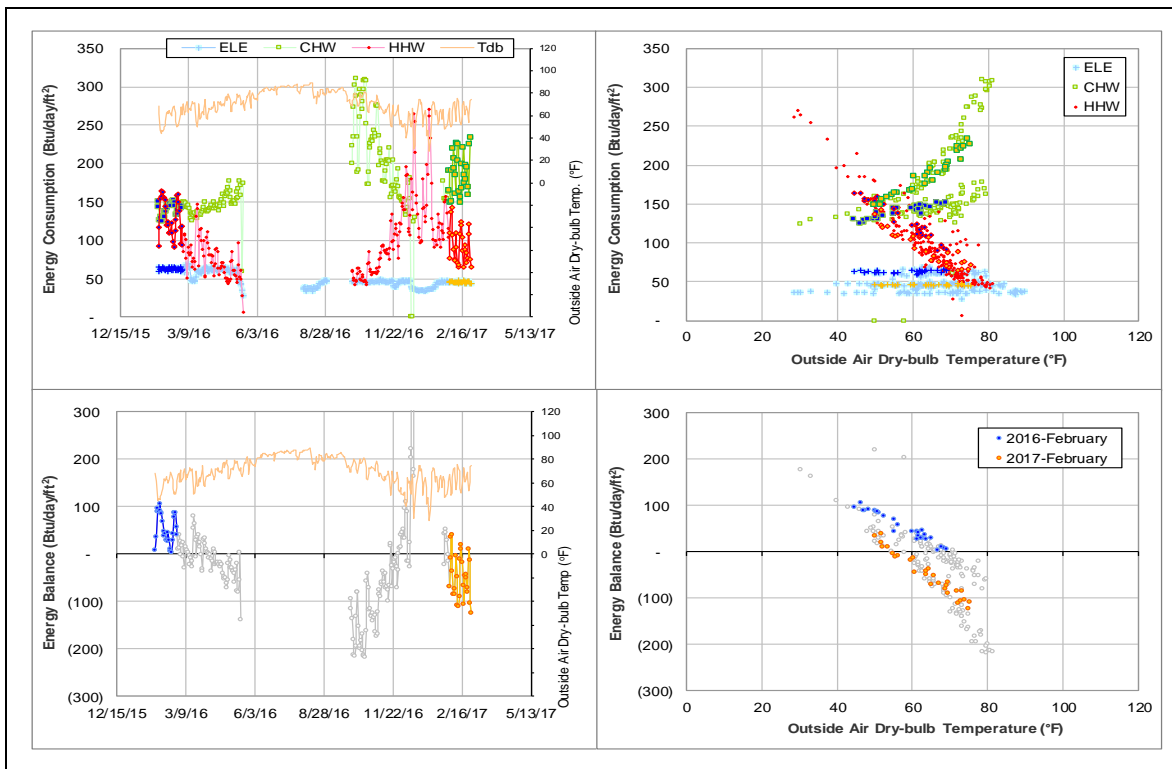
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
ELE	The consumption decreased after the missing period.	Since October 2016
CHW	The consumption increased after the missing period.	Since October 2016
HHW	The consumption decreased after the missing period.	Since October 2016
EB	The cross-point moved from 68°F to 55°F.	Since October 2016

Comments

After the missing period from May to October 2016, ELE and HHW consumption decreased and CHW consumption increased. EB cross-point moved from 68°F to 55°F since then.

Explanatory Figure: 13 months energy balance plot with original data (The plot is rescaled to remove the pikes.)



Luedecke Building (Cyclotron) (TAMU BLDG # 434)

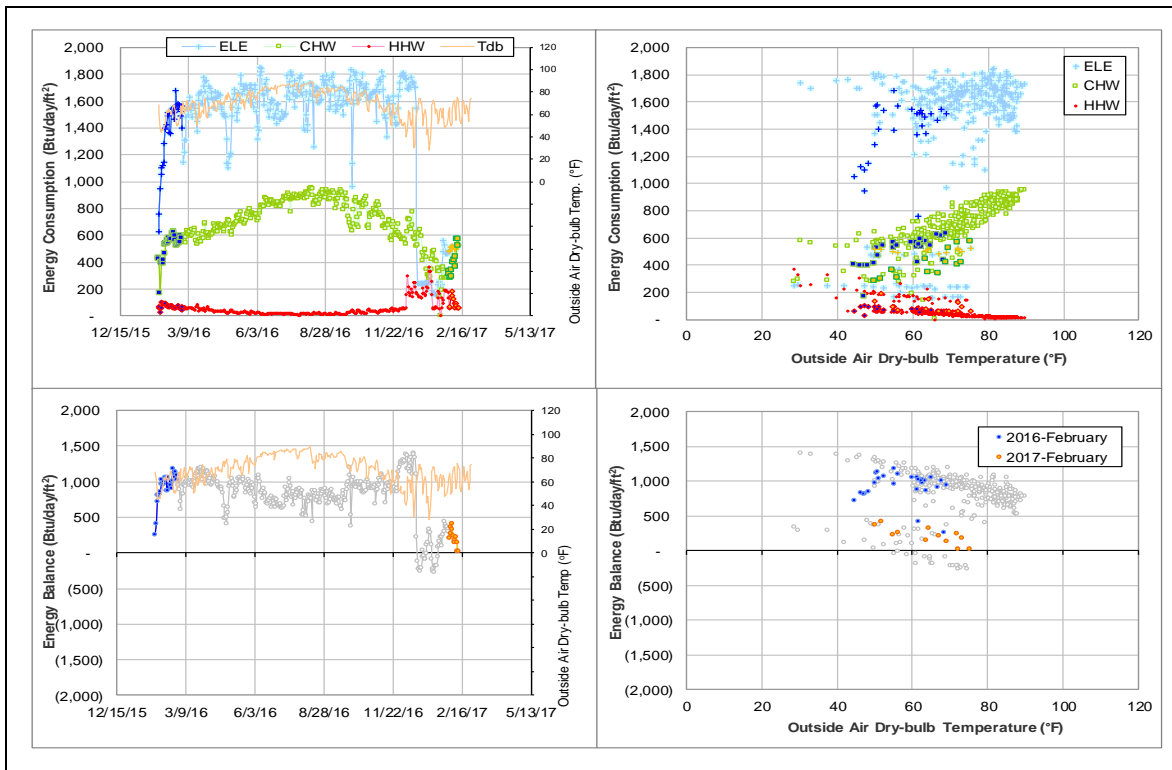
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
All utilities	Utilities did not rise back to normal level.	February 2017

Comments

The consumption of all utilities of this building drops to a very low level in December and gradually rises back to normal in February each year. But the consumption has not increased back to normal in 2017. The meter readings went missing on 2/13/2017.

Explanatory Figure: 13 months energy balance plot with original data (The plot is rescaled to remove the pikes.)



Mosher Residence Hall (TAMU BLDG # 433)

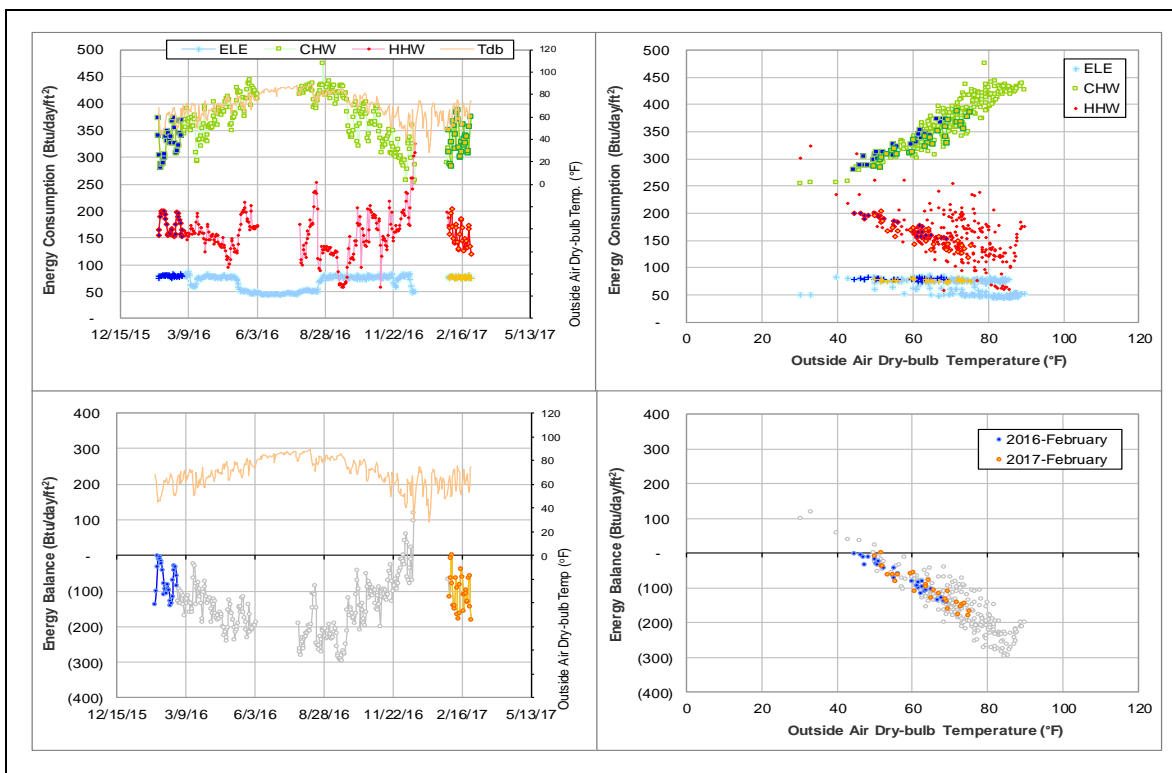
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption level gradually increased.	Since 2015
HHW	The consumption level gradually decreased.	Since 2015
ELE	The consumption level suddenly decreased.	Since January 2016
Energy Balance	The cross-point temperature is lower than 50°F.	Since 2015

Comments

The ELE meter (MID 009083) replaced old meter (MID 000290) since January 2016. After that, the consumption decreased from 105 Btu/day/ft² to 80 Btu/day/ft² (approximately 25%). At near 40°F compared to 11/2014, CHW increased slightly by about 25 Btu/day/ft² and HHW decreased slightly by about 25 Btu/day/ft². HHW started to scatter since 5/2016 (shortly before the missing period). The cross-point temperature decreased further from near 55°F to lower than 50°F now. It is suggested to investigate these meters.

Explanatory Figure: 13 months energy balance plot with original data



Oceanography & Meteorology Building (TAMU Bldg #443)

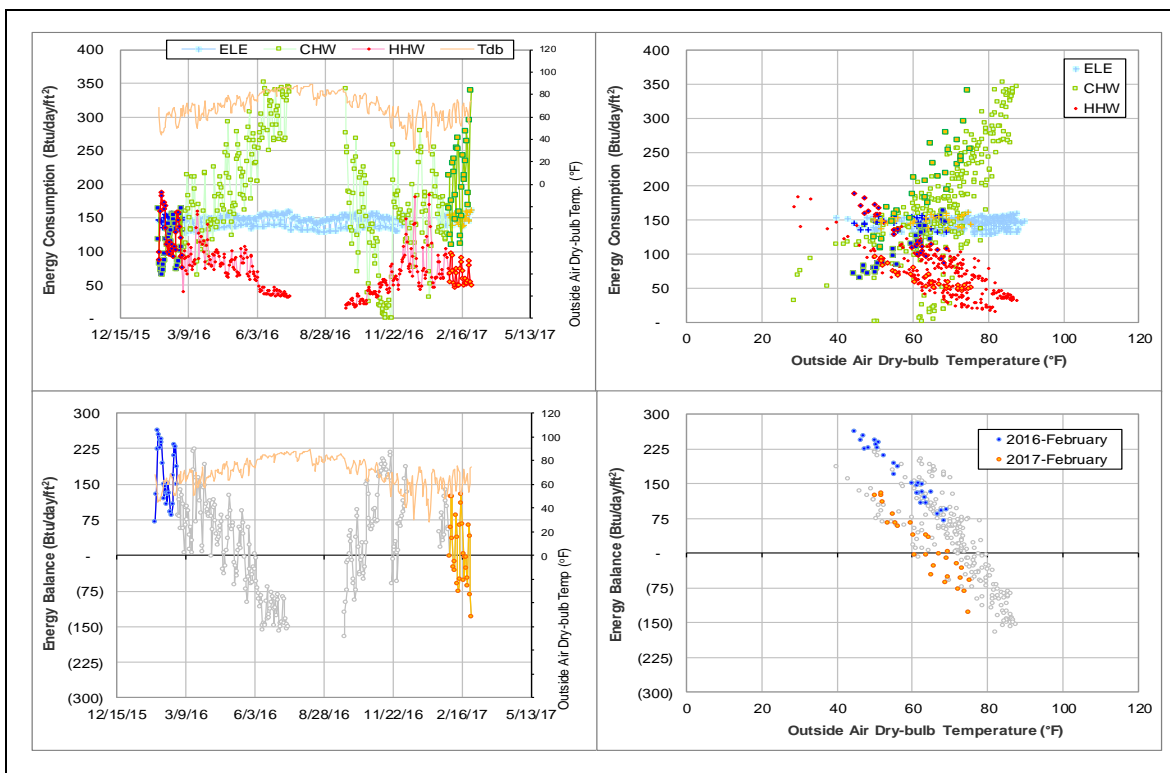
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption significantly decreased after a missing period.	Since September 2016
	The consumption increased suddenly.	Since November 2016
HHW	The consumption significantly decreased after a missing period, but is at the same level last year.	Since September 2016
EB	The cross-point temperature moved from 75°F to 62°F.	Since November 2016

Comments

Both CHW and HHW consumption decreased significantly after a missing period in September 2016, but EB was not affected. CHW then saw a sharp increase at the end of November 2016, and EB moved from 75°F to 62°F. This period, though, is suspected to have questionable meter readings. See also section II-2.

Explanatory Figure: 13 months energy balance plot with original data.



Teague Research Center (TAMU BLDG # 445)

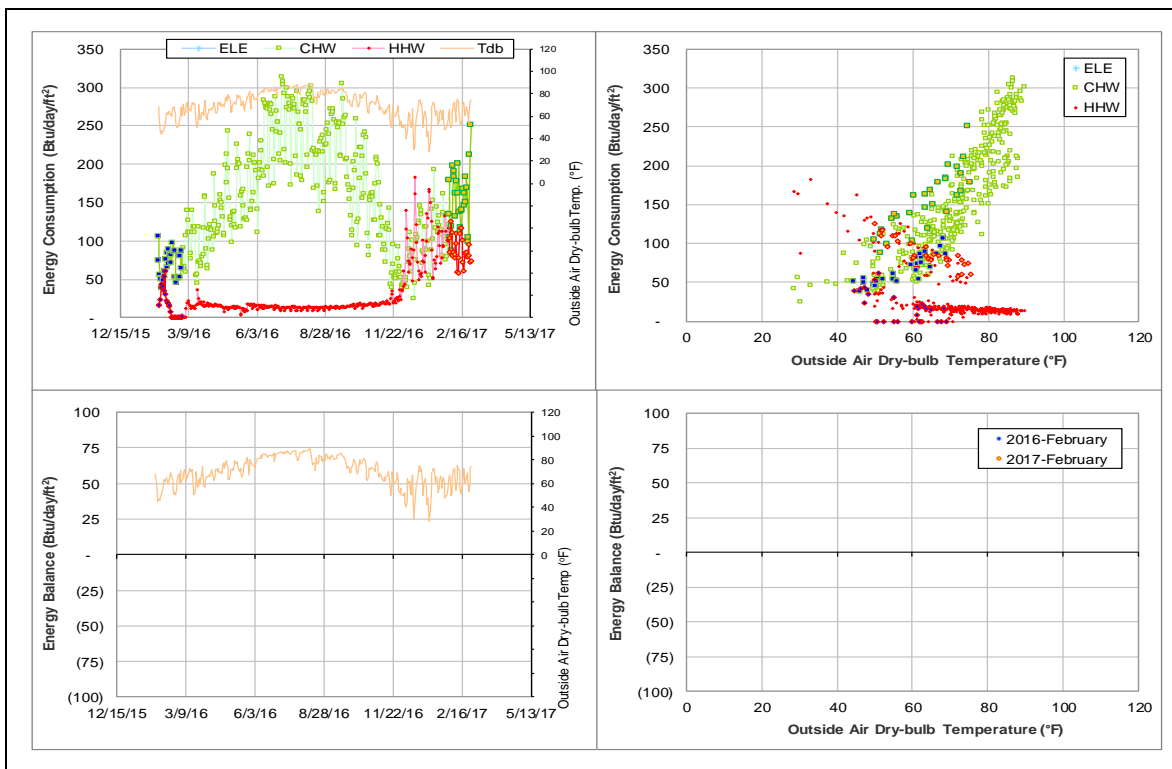
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The consumption pattern keeps fluctuating.	For several years, Most recently December 2016
HHW	The consumption pattern keeps fluctuating.	For several years, Most recently December 2016

Comments

The most recent change of CHW in December 2016 was caused by an increase of flow rate. Now the consumption is higher than in the previous year. The change of HHW pattern may have been caused by a sudden increase in Delta-T in December 2016. HHW consumption is now also appreciably higher than the level of last year. See also II-2. See also #517 in II-3.

Explanatory Figure: 13 months energy balance plot with original data



DPC Annex (TAMU BLDG # 517)

Detected issues in the energy balance and/or the consumption data

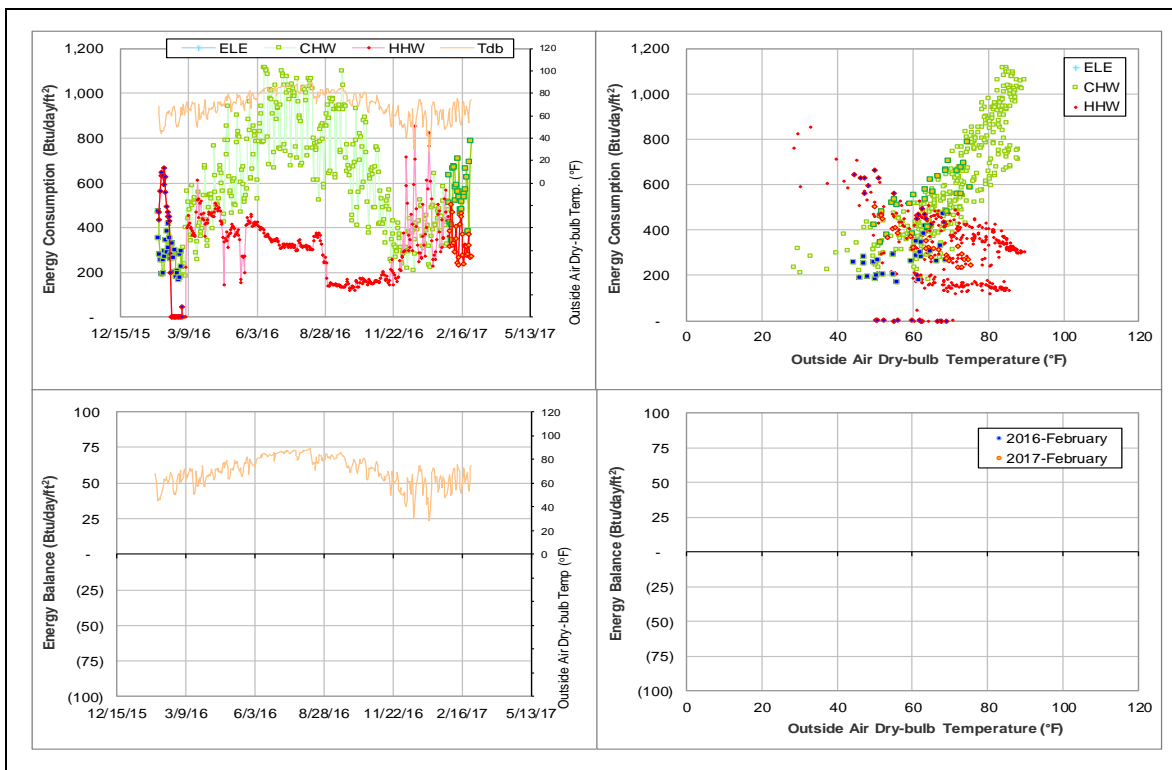
Data Type	Description of data behaviors	Period
CHW	The consumption pattern is unstable.	For several years, Most recently December 2016
HHW	The consumption pattern is unstable.	For several years, Most recently December 2016

Comments

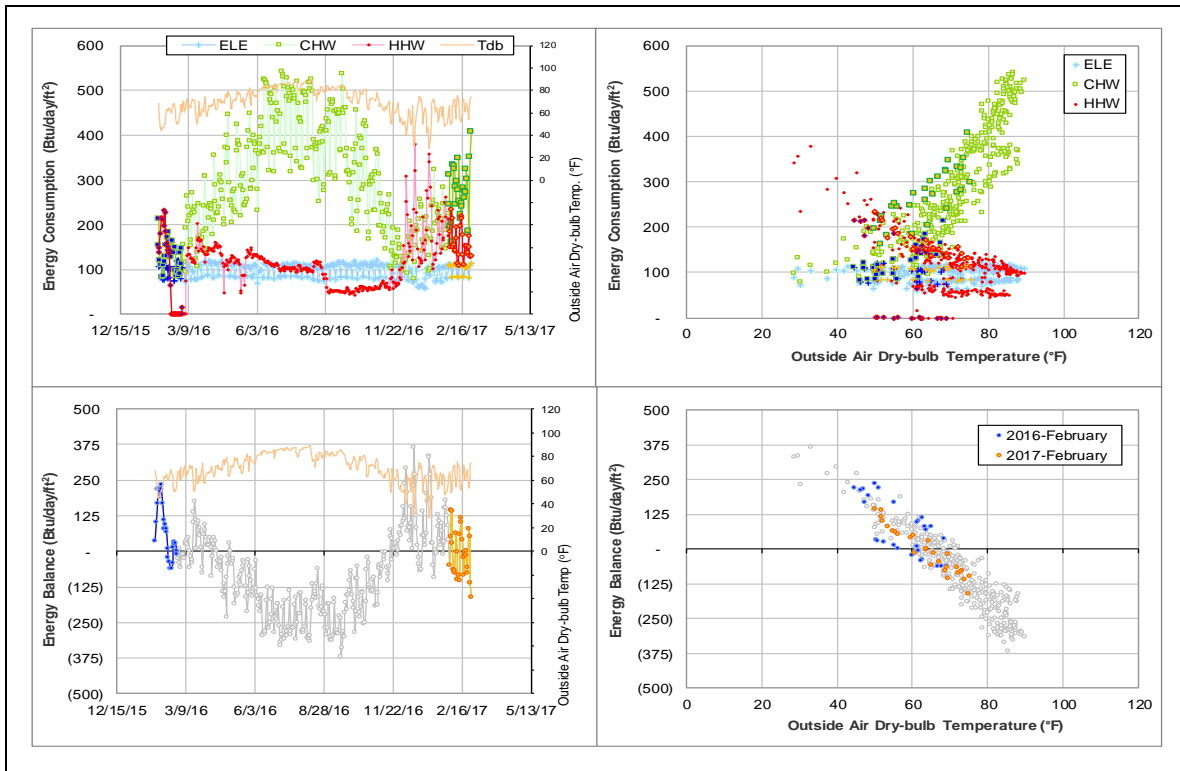
The most recent change of CHW in December 2016 was caused by a gradual increase of Delta-T. Now the consumption is higher than in the previous year. HHW consumption has been shifting frequently. See also II-2. See also #445 in II-3.

The combined EB plot for these two buildings (as they share ELE MID's 006411 & 006415) does not see obviously noticeable behavior, except that the cross-point is only slightly higher than 60°F.

Explanatory Figure: 13 months energy balance plot with original data



Explanatory Figure: 13 months energy balance plot with original data for total of #445 and #517



Rudder Theatre Complex (TAMU Bldg #446)

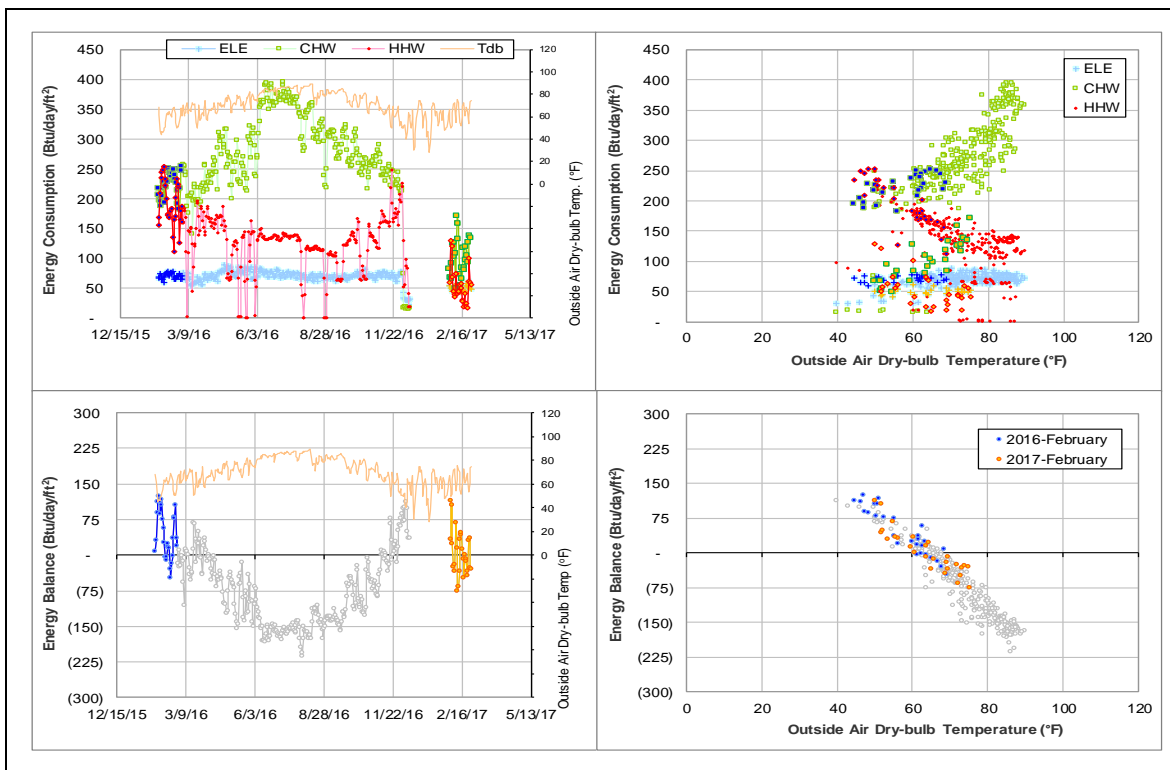
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
All Utilities	All utilities dropped to very low level and have not recovered.	Starting December 2016

Comments

All utilities for this building had dropped to a very low level during winter break last year. The similar phenomena also appeared in the winter break in 2015. This is not suspected to be a meter malfunction. Data from last year suggest that the consumption went back to the normal level near Monday 1/25/2016. Data of the current year have not yet recovered to the normal level at the end of February. EB of this building does not show separate patterns of these two levels.

Explanatory Figure: 13 months energy balance plot with original data.



Psychology Building (TAMU Bldg #463)

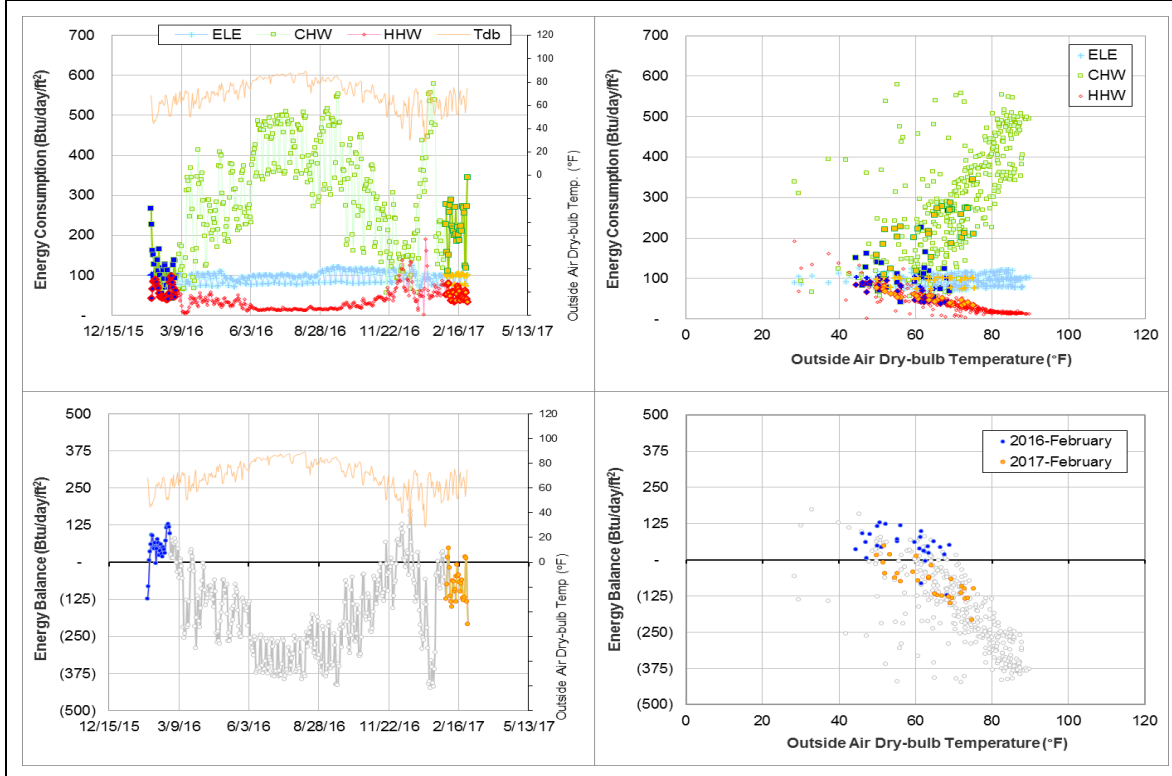
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
Energy Balance	The pattern is scattered and the level is low.	Ongoing after ESCO implementation in 2011
CHW	The consumption pattern versus ambient temperature scatters.	

Comments

The CHW consumption pattern versus ambient temperature started to scatter after ESCO implementation. The CHW consumption level is high, because the CHW temperature differential is around 20°F that is high for an office building with conventional HVAC systems. The building had energy efficiency improvements by ESCO during the period of 5/9/2011–8/19/2011.

Explanatory Figure: 13 months energy balance plot with original data.



Fermier Hall (TAMU Bldg #482)

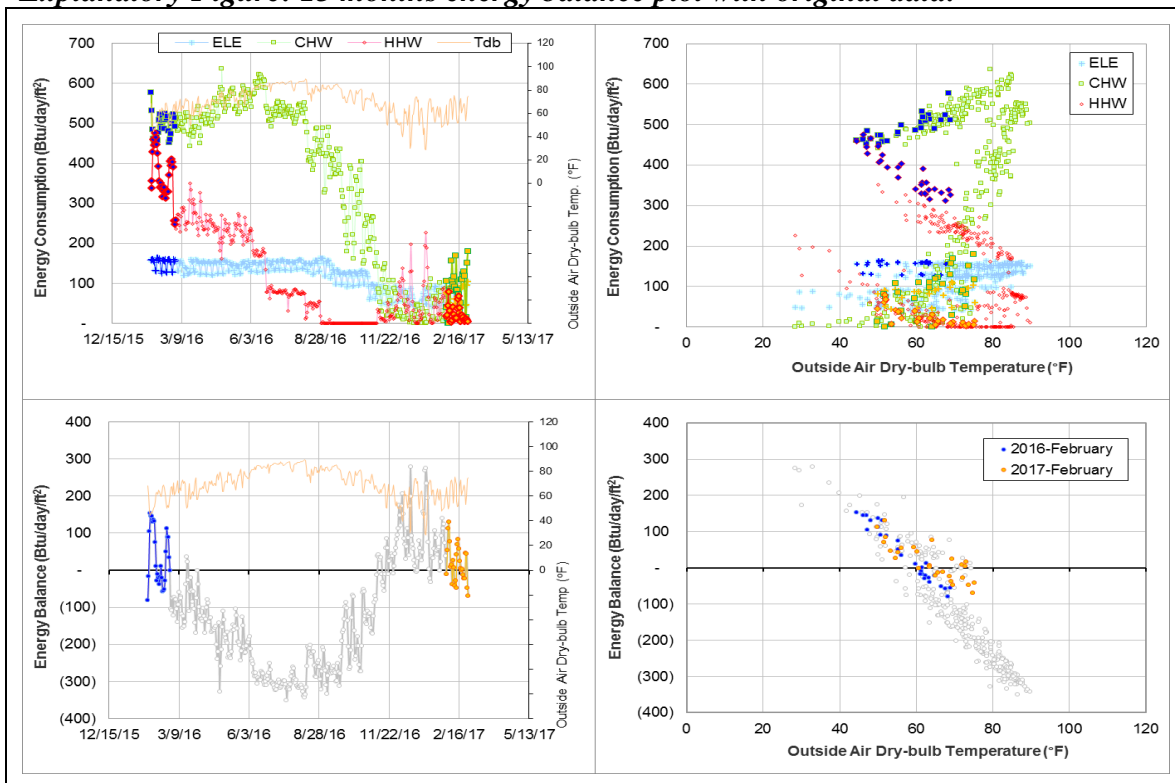
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW/HHW	The consumption level has significantly decreased.	6/24/2016 – Ongoing

Comments

CHW and HHW of this building decreased significantly in steps since 6/24/2016. Since the energy balance plot has retained its pattern up to 12/23/2016, the drop may be due to a decrease in usage. The CHW winter break (12/23/2016 – 12/31/2016) consumption is lower than the recent pattern but does not appear to be a meter issue.

Explanatory Figure: 13 months energy balance plot with original data.



Chemistry Building (TAMU Bldg #484)

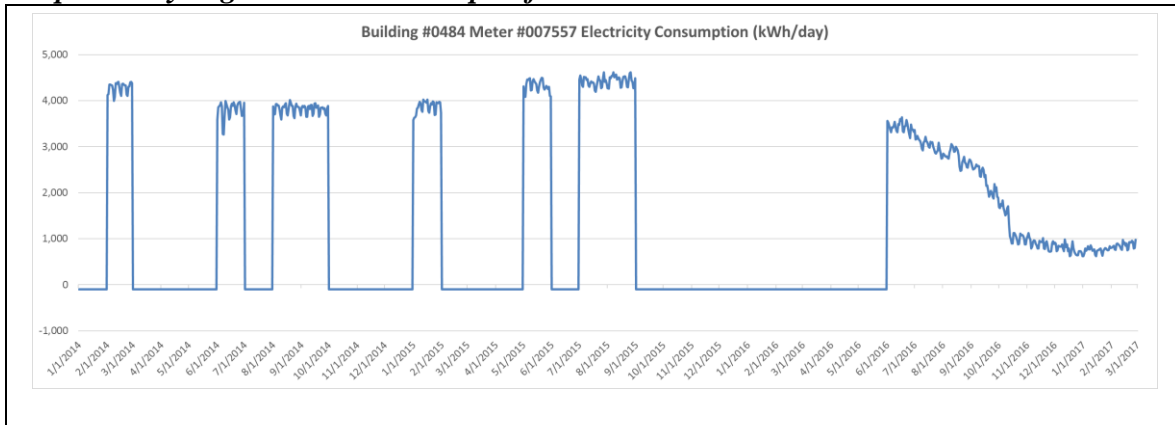
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
ELE	The ELE consumption level has decreased significantly.	6/1/2016 – ongoing

Comments

There are four ELE meters for this building. The consumption for one of them (MID #007557) decreased gradually from 6/1/2016 to 8/31/2016 then more significantly in September and October 2016. This change appears to be related to the building renovations.

Explanatory Figure: Times series plot for meter #007557



Civil Engineering Building (TAMU Bldg #492)

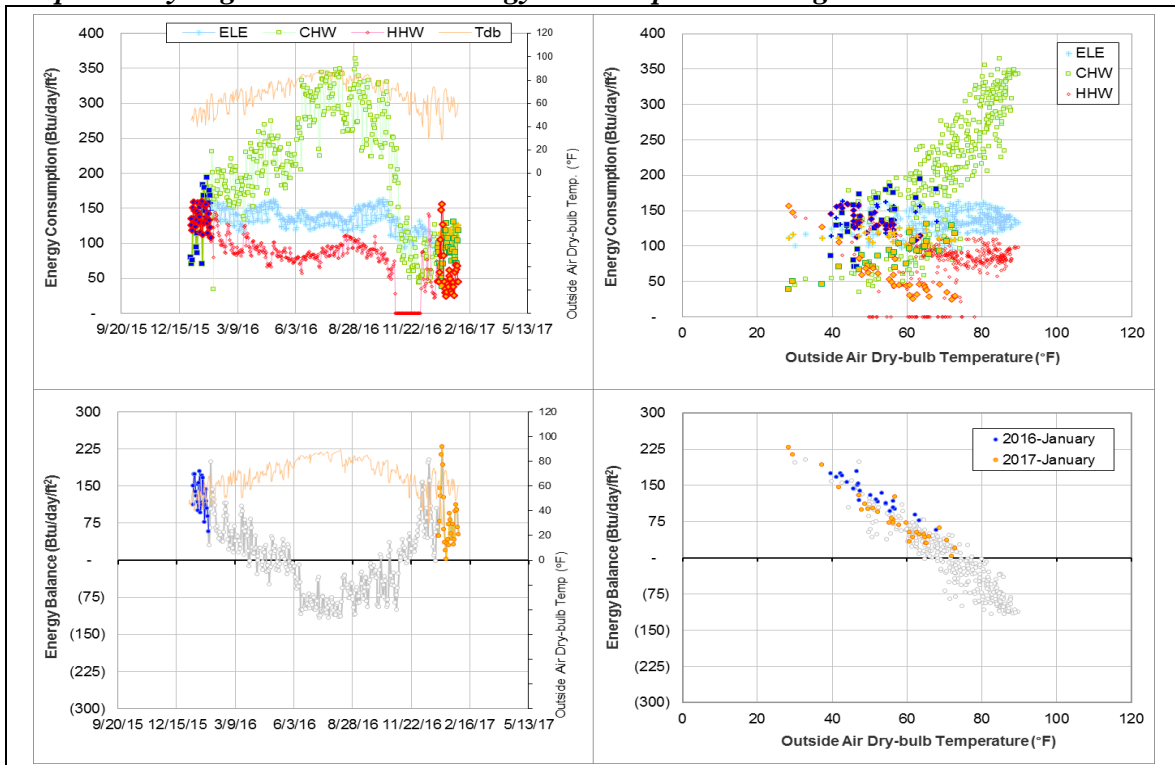
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW/HHW	The consumption level decreased.	10/29/2016 – ongoing.

Comments

Starting 10/29/2016, the CHW and HHW consumption levels decreased and have remained low. Besides the HHW meter issue from 10/29/2016 – 12/7/2016 (zero flow rate and near zero delta-T), the lower consumption levels may be due to ESCO.

Explanatory Figure: 13 months energy balance plot with original data.



Utilities & Energy Services Central Office (TAMU Bldg #496)

Detected issues in the energy balance and/or the consumption data

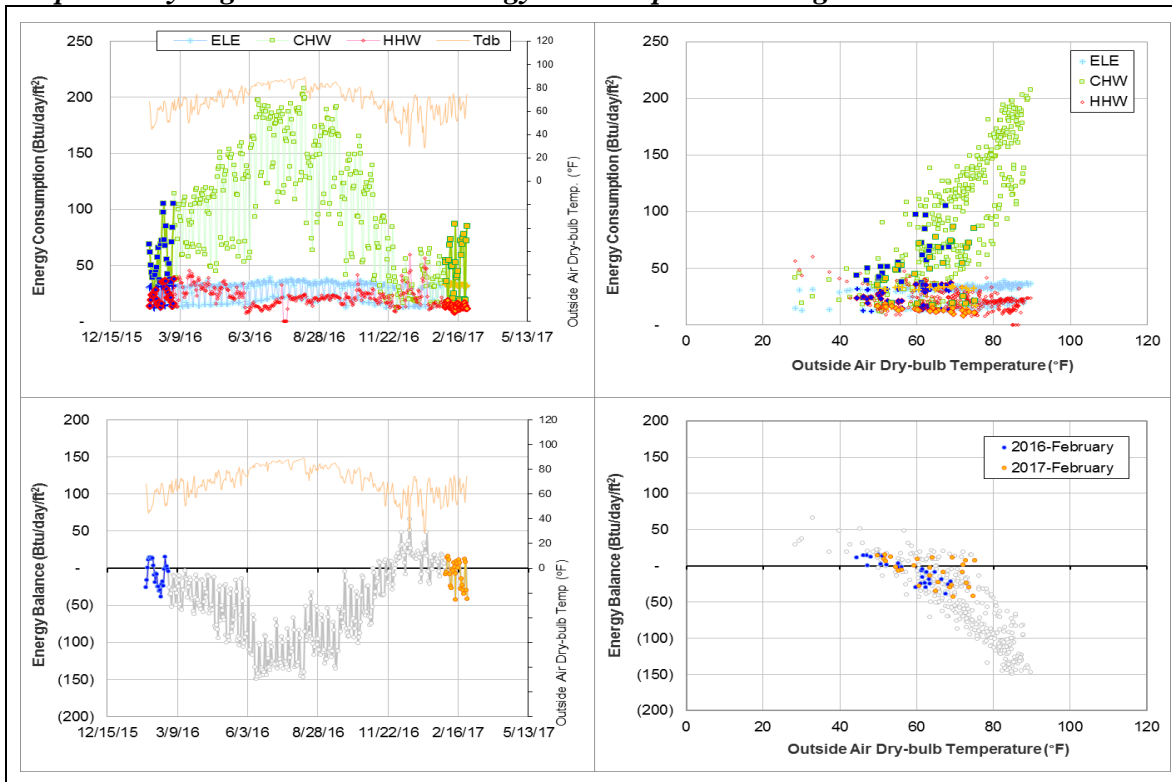
Data Type	Description of data behaviors	Period
ELE, CHW, and HHW	The energy use per unit floor area was low compared to other buildings.	Since the data became available on 7/1/2012

Comments

The peak electricity use density was around 0.65 W/ft² which is small compared to that of other office buildings on campus. The delta T for HHW seemed to be small for years. The CHW and HHW consumption per the unit floor area also seemed to be low. It is possible that the GSF we have (46,110 ft²) includes substantial unoccupied space. The CHW consumption during the winter break period (12/23/2016 – 12/31/2016) is lower than previous winter break periods but does not appear to be a meter issue.

The energy balance was scattered due to the consumption level changes for CHW and HHW, the cross-point temperature of the energy balance was in the range of 50 to 70°F.

Explanatory Figure: 13 months energy balance plot with original data.



Engineering Innovation Center (TAMU Bldg # 499)

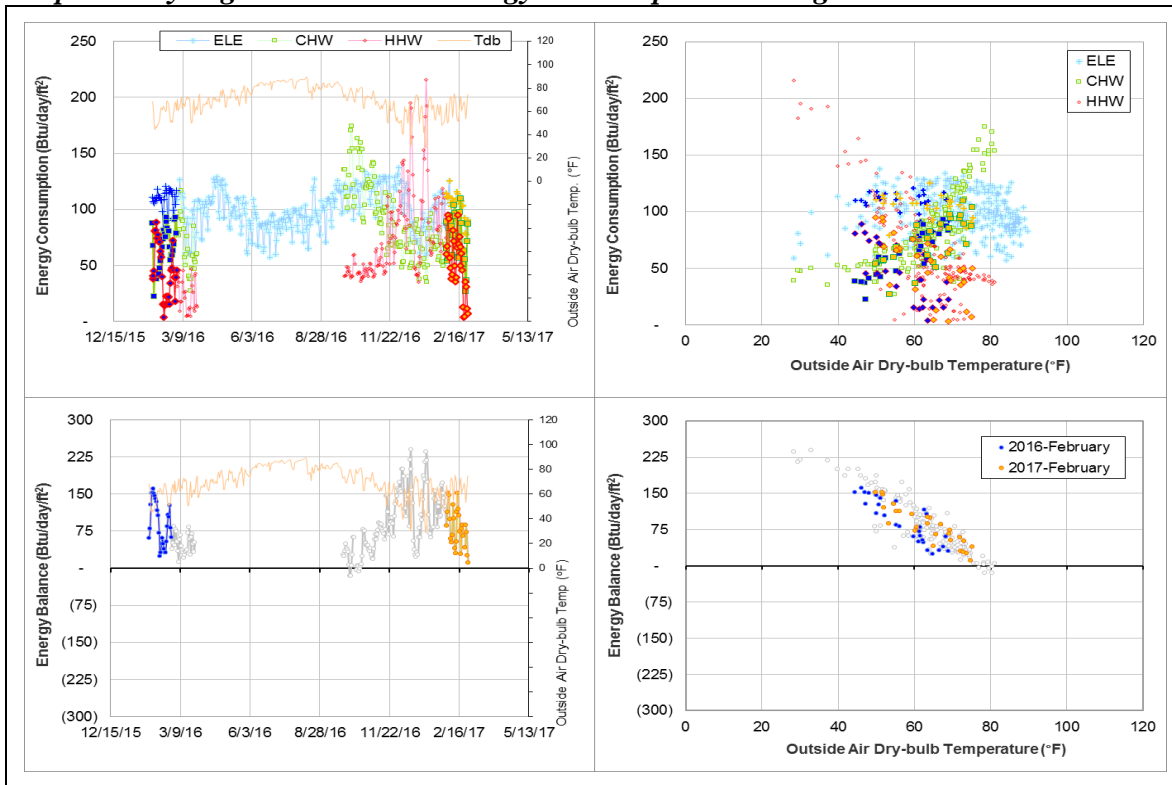
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
Energy Balance	The cross-point temperature is high, around 80 °F.	For years
CHW	The consumption level is low compared to the ELE and HHW consumption.	For years

Comments

The CHW consumption is relatively low compared to the ELE and HHW consumption and it could be the reason causing the high cross-point temperature of energy balance for this building.

Explanatory Figure: 13 months energy balance plot with original data.



Nagle Hall (TAMU Bldg #506)

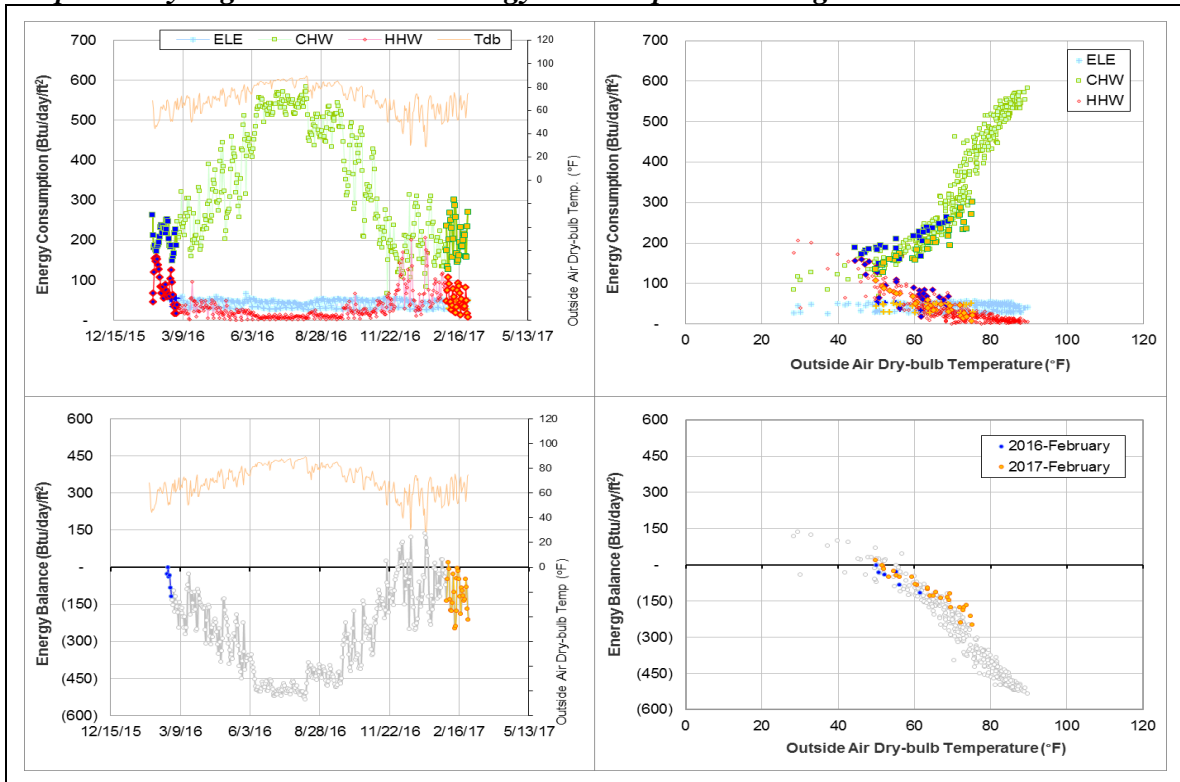
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
Energy Balance	The level was low and the cross-point temperature was around 50°F.	The cross-point temperature has always been low.
ELE	The consumption per unit floor area was smaller than those for other office buildings.	The level was always low and gradually decreased over the past 4 years.

Comments

The ELE consumption was about 100 Btu/day/ft² lower than the levels in typical office buildings on campus, and this might be a metering error or this meter might not cover the whole building.

Explanatory Figure: 13 months energy balance plot with original data



All Faiths Chapel (TAMU Bldg #512)

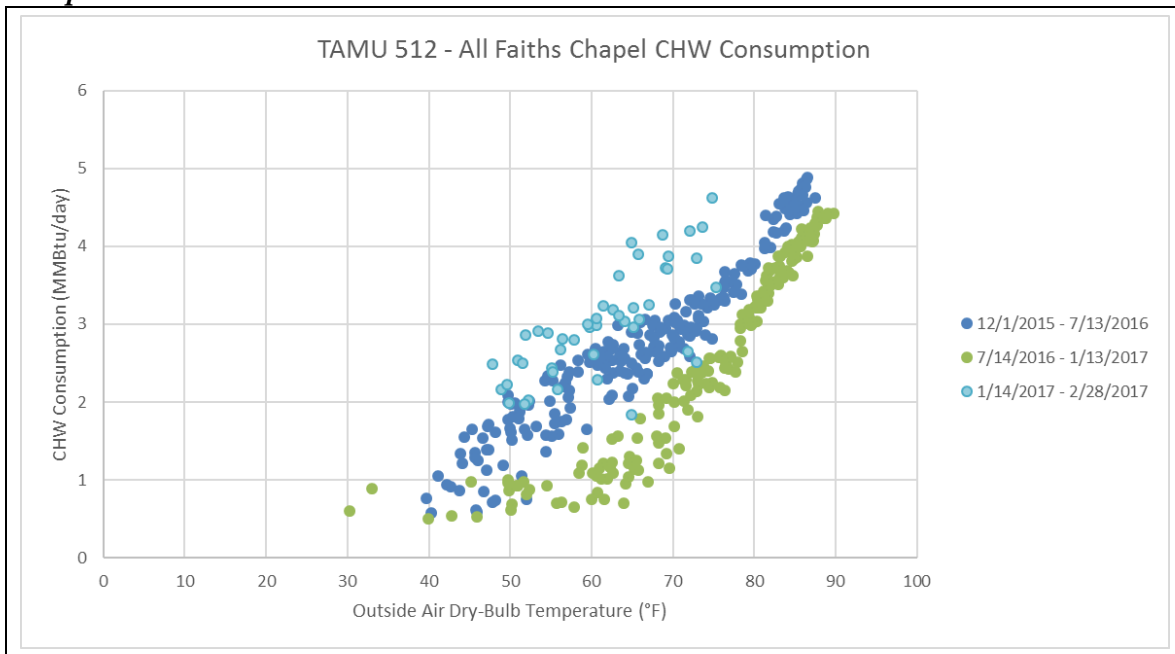
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	The CHW consumption level decreased.	7/14/2016 – 1/13/2017
	The CHW consumption level increased.	1/14/2017 – 2/28/2017

Comments

From 7/14/2016 to 1/13/2017, the CHW consumption level decreased dropping out of the main pattern. Starting 1/14/2017, the CHW consumption level has increased and appears above the original pattern. More data is needed to see how the pattern continues.

Explanatory Figure: 13 months energy consumption versus outside air dry-bulb temperature.



Blocker Building (TAMU Bldg #524)

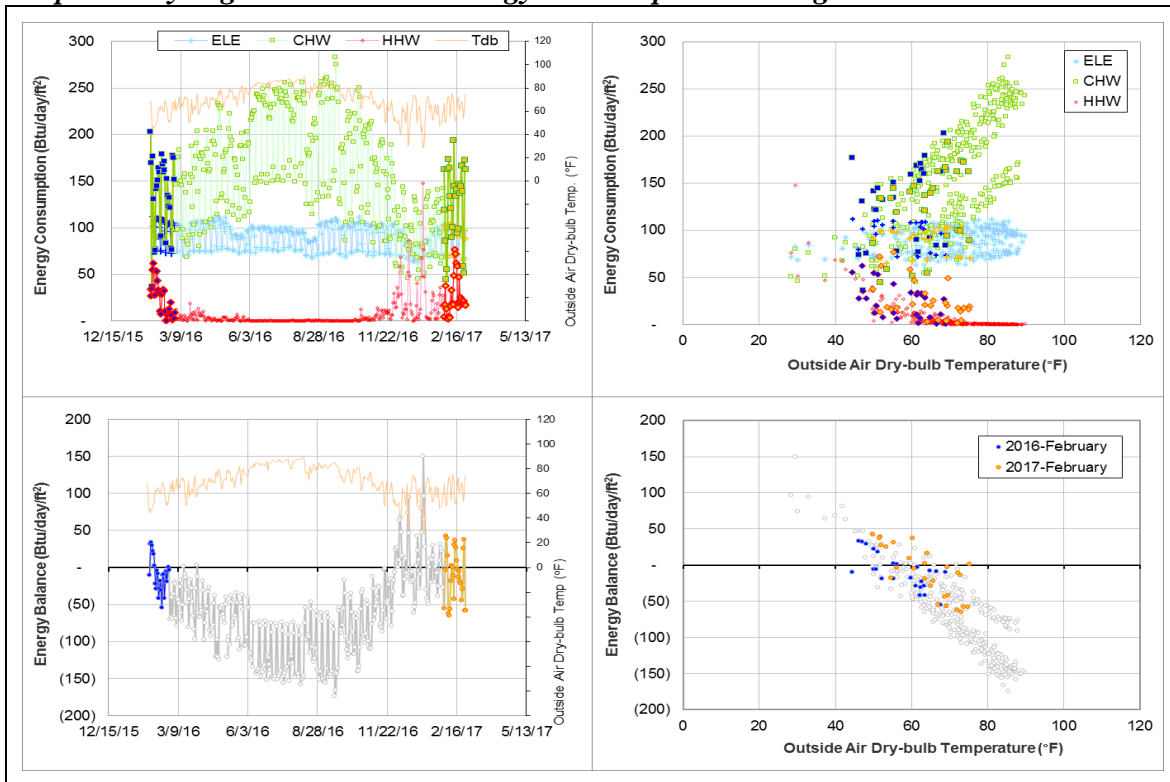
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
Energy balance	The level was low and the cross-point temperature was 50 - 60°F.	For years
HHW	The consumption level might be low.	Past several years

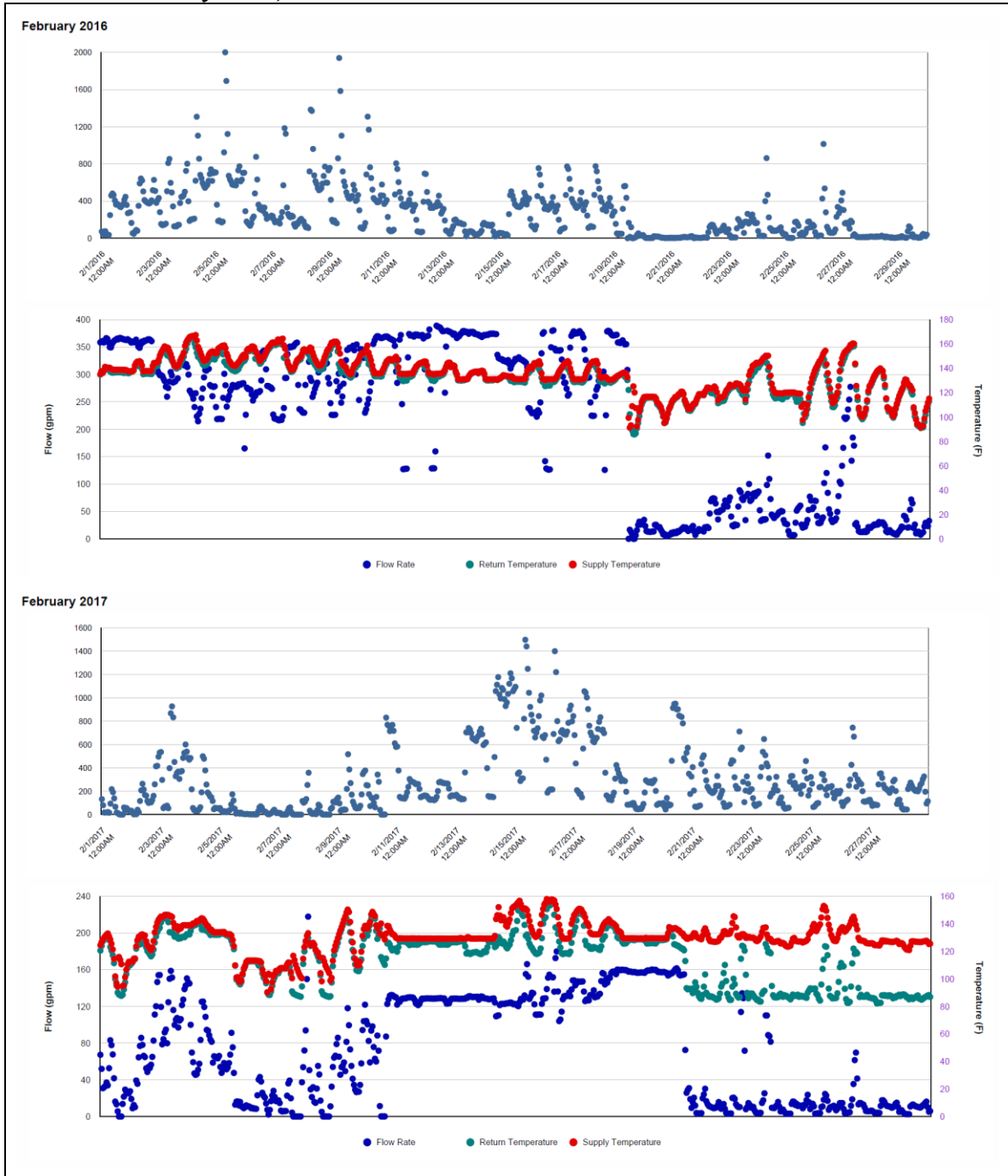
Comments

The cross-point of temperature of energy balance has been low for years. The delta-T and consumption level for HHW seems low for the past couple of years. More information is needed to help identify the reason causing the low energy balance for this building.

Explanatory Figure: 13 months energy balance plot with original data



Explanatory Figure: Time series plots of hourly HHW energy consumption, flow rate, and supply and return temperatures from the utilities office. (top: February 2016, bottom: February 2017)



McNew Laboratory (TAMU Bldg #740)

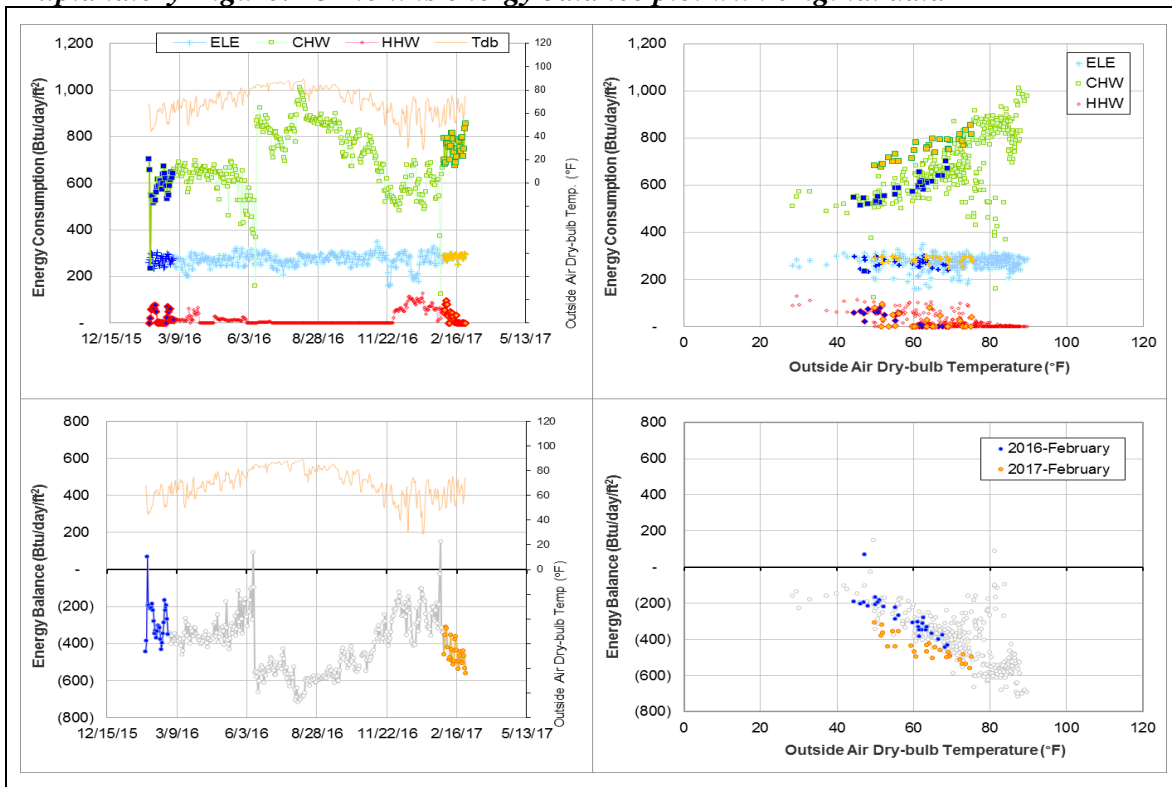
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
Energy Balance	The energy balance pattern level is low.	For years

Comments

The energy balance level has consistently been low for years. More information is needed to help identify the reason causing the low energy balance for this building.

Explanatory Figure: 13 months energy balance plot with original data



Entomology Research Lab (TAMU Bldg #815)

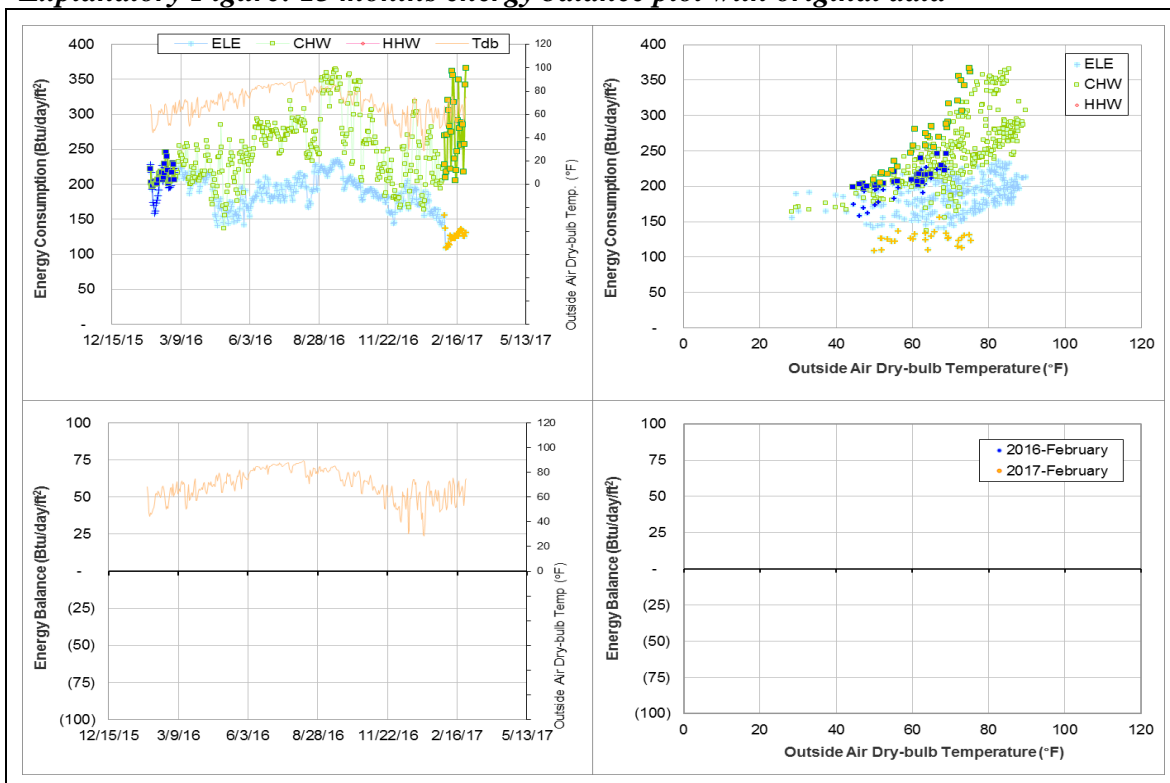
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	Change in energy consumption pattern	September 2016 – Ongoing

Comments

Starting the month of September 2016, the CHW energy consumption pattern appears to becoming steeper. Consumption levels have increased at higher temperatures compared to previous months. Since there is no HHW for this building, an energy balance chart cannot be created to check the change in CHW with the overall building balance.

Explanatory Figure: 13 months energy balance plot with original data



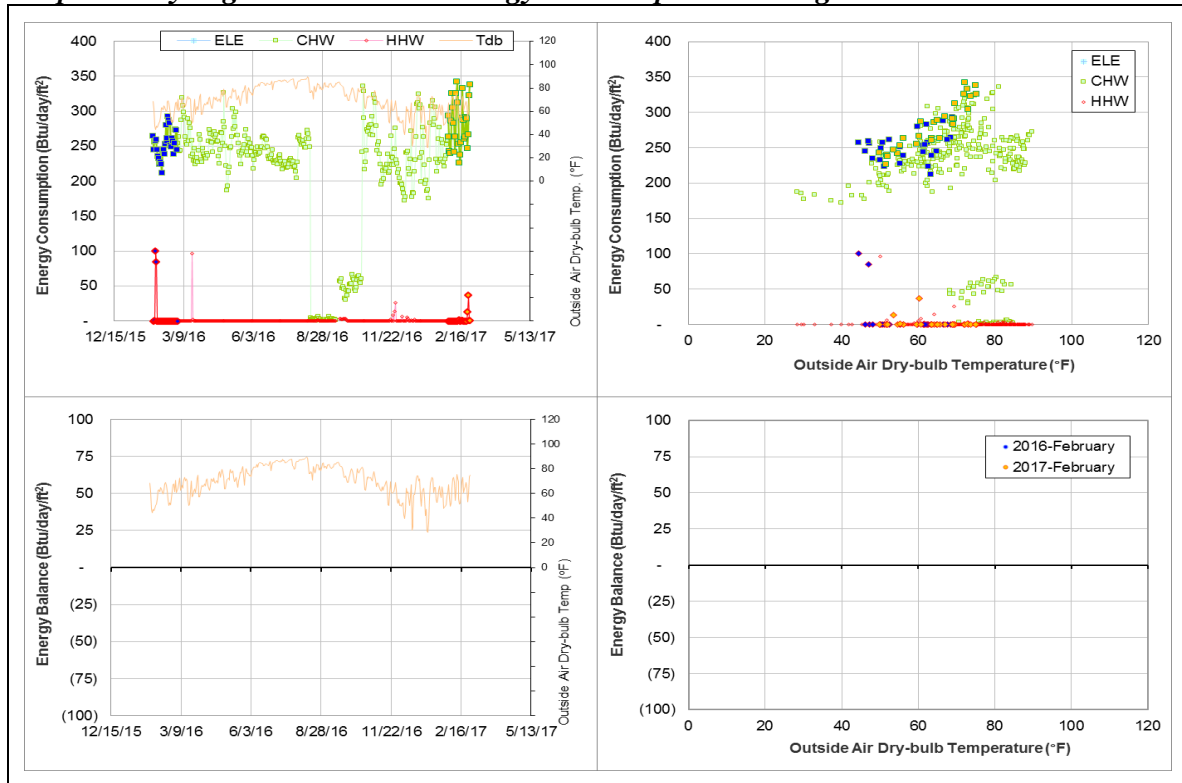
TVMC-Small Animal Building (TAMU Bldg# 880)

Data Type	Description of data behaviors	Period
HHW	The daily consumption is zero or nearly zero for the majority of the days during the year.	Since the data became available in October 2008

Comments

The daily HHW consumption pattern is zero or nearly zero for the majority of the days for years. Because the HHW consumption level appears unstable since the data became available, a valid consumption model for this meter has not been created.

Explanatory Figure: 13 months energy balance plot with original data



Veterinary Medicine Administration (TAMU Bldg# 1026)

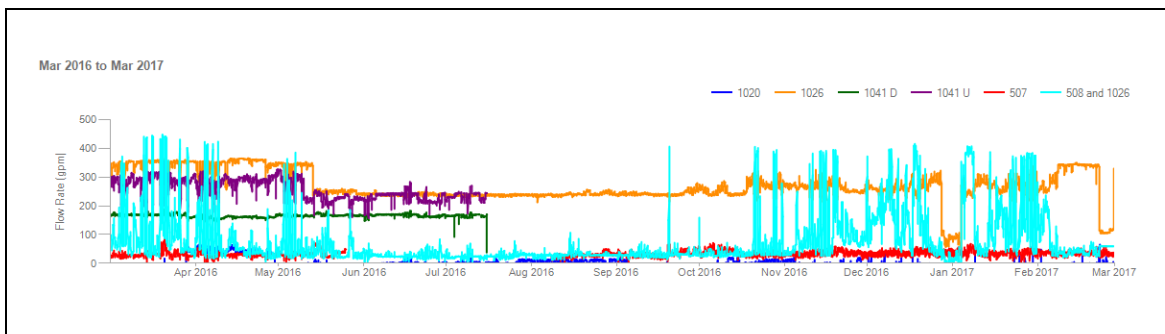
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
HHW 006053	The sub-meter's (006053) flow rate for one building sometimes is higher than the total meter (004170) for two buildings.	For several years

Comments

The HHW meter ID 006053 is a sub-meter of the meter ID 004170 which meters the total energy use in the buildings #508 and 1026. It is questionable that the flow rate of the sub-meter exceeds the flow rate of the main meter. We would like to know the HHW distribution route for the two buildings and the locations of the sensors.

Explanatory Figure: Time series of hourly HHW flow rates for Veterinary Medicine Administration (Bldg #1026) and neighboring buildings during 2/1/2016–2/1/2017. The combined HHW metered for Bldg #1026 and #508 (light blue) is lower than the standalone HHW meter for only Bldg #1026 (orange).



Biological Control Facility (TAMU Bldg# 1146)

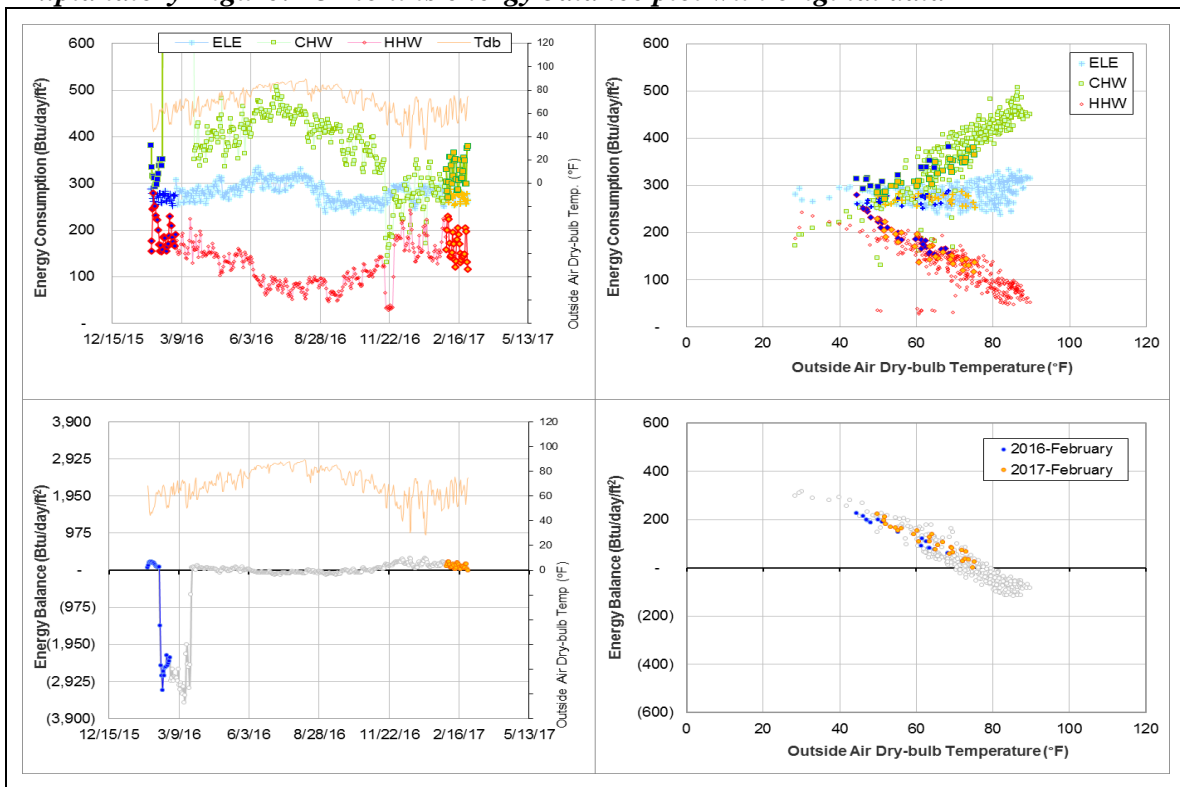
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	Decrease in energy consumption pattern.	December 2016 – Ongoing
Energy Balance	Increase in energy balance pattern.	December 2016 – Ongoing

Comments

Starting in December 2016, the CHW consumption pattern seems to have decreased, especially in higher temperatures. The energy balance pattern is also showing an increase. We will continue to monitor data to see if this is a new pattern emerging.

Explanatory Figure: 13 months energy balance plot with original data



Physical Plant Administration & Shops (TAMU Bldg# 1156)

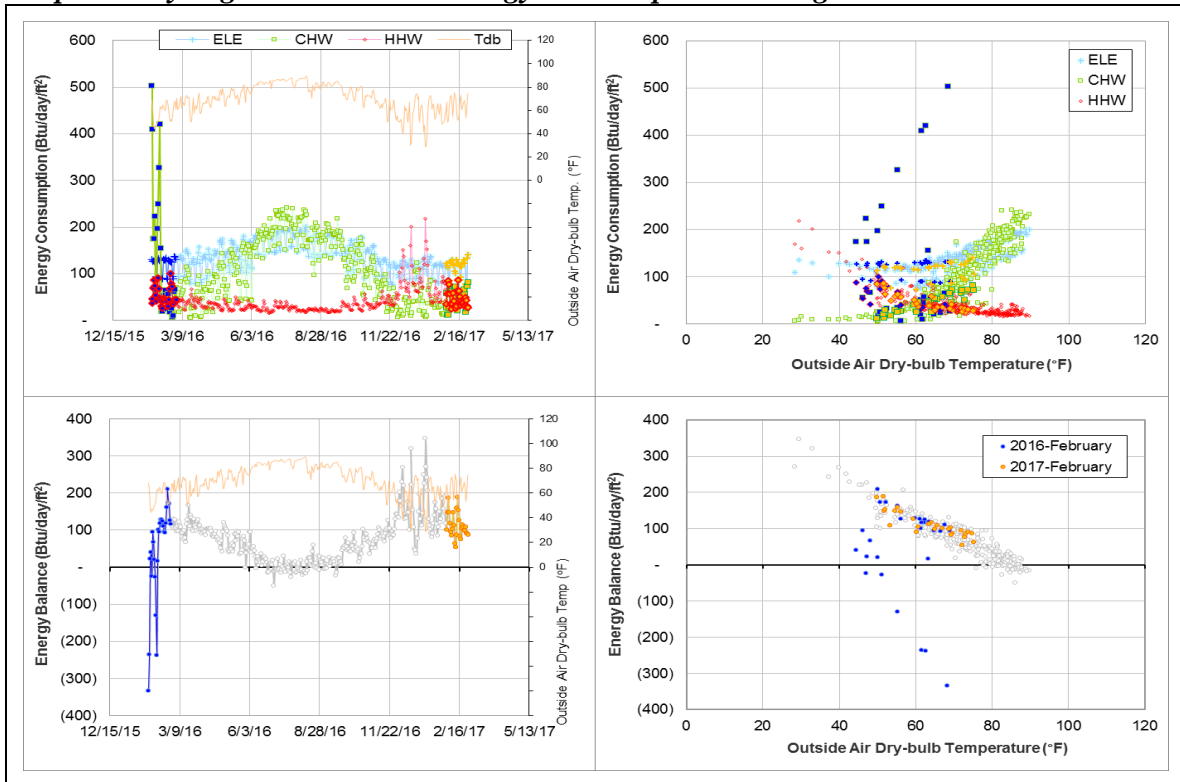
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
Energy Balance	The cross-point temperature is high, ~85°F.	7/1/2014-ongoing
CHW	The consumption level might be low compared to the ELE and HHW use level.	Since the data became available on 7/1/2012.

Comments

The electricity is not available until 7/1/2014. CHW consumption level might be low compared to the ELE and HHW use level. But the CHW consumption level has been stable since the data became available on 7/1/2012. More information might be needed to help identify which type energy causes the high cross-point temperature.

Explanatory Figure: 13 months energy balance plot with original data



Veterinary Research Building (TAMU Bldg# 1197)

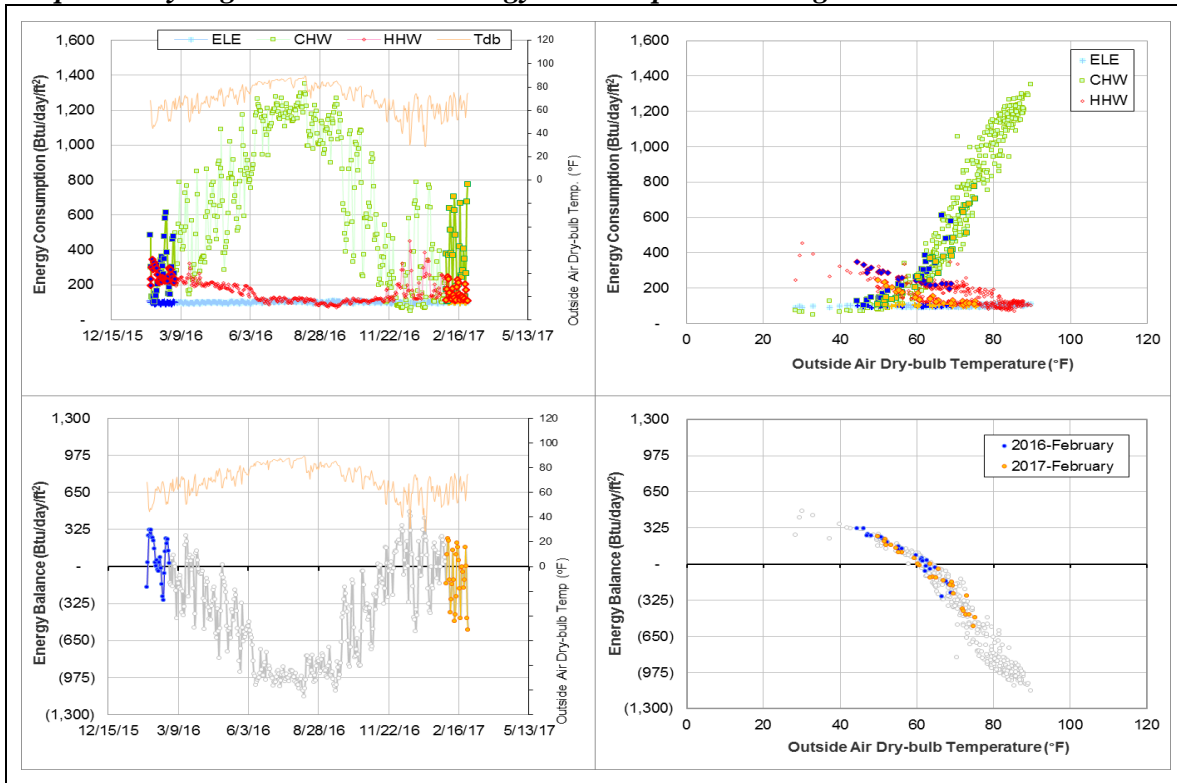
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
ELE	The consumption is low for a laboratory building.	Since January 2010 when the meter was added to this report

Comments

The whole building hourly electricity use is in the range 120 kWh to 160 kWh (1.05 W/ft^2 to 1.40 W/ft^2), which is low for a veterinary laboratory building on the campus. This seems to be the reason for the low level of the energy balance load. The temperature-axis intercept of the energy balance is around 62°F .

Explanatory Figure: 13 months energy balance plot with original data



Reynolds Medical Sciences Building (TAMU Bldg# 1504)

Detected issues in the energy balance and/or the consumption data

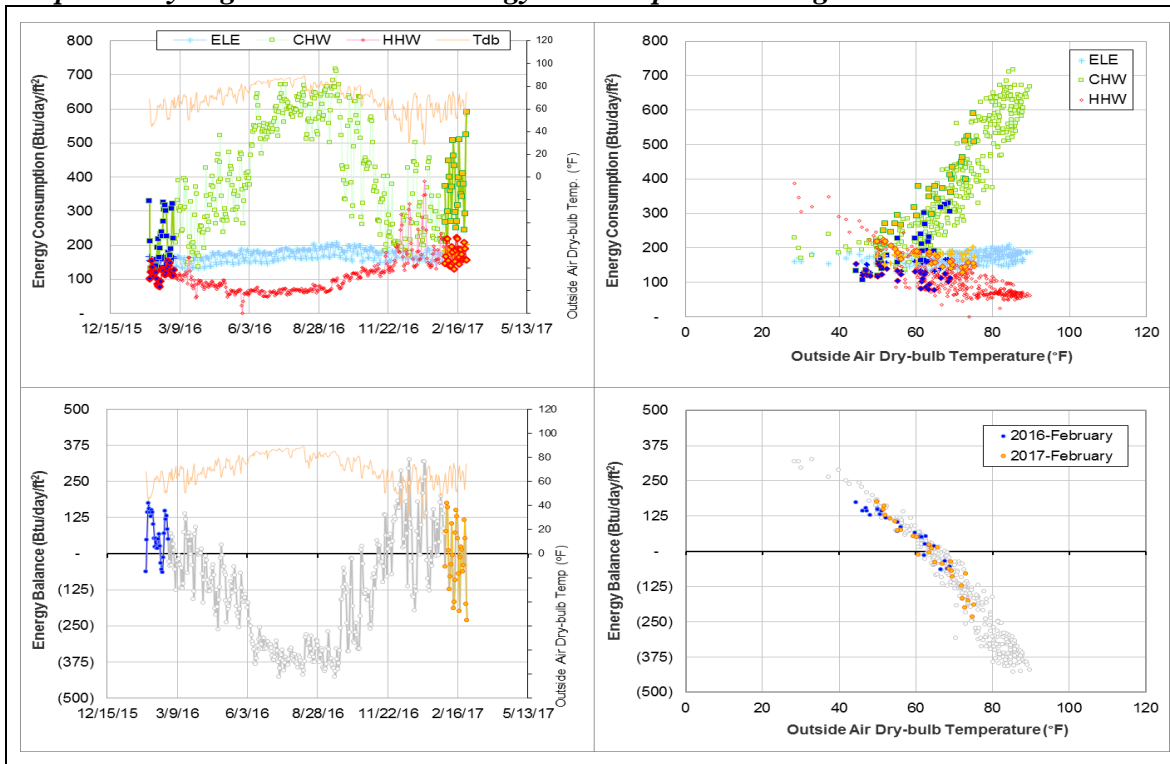
Data Type	Description of data behaviors	Period
ELE	Increase in energy consumption pattern.	September 2016 – Ongoing
CHW	Slight increase in energy consumption pattern.	September 2016 – Ongoing
HHW	Increase in energy consumption pattern	September 2016 – Ongoing

Comments

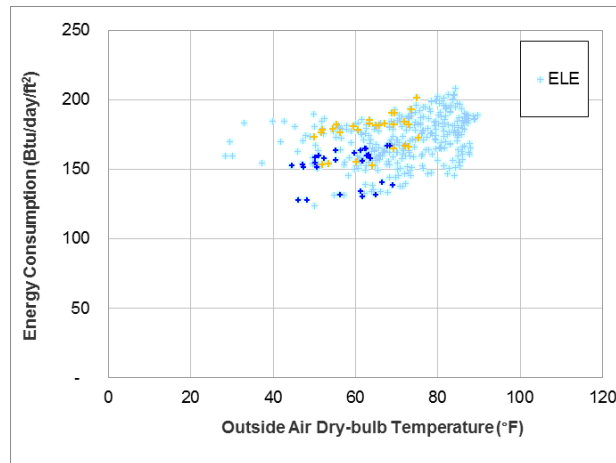
The HHW energy consumption pattern has increased by approximately 40 Btu/day/ft² starting in September 2016. Around the same time, the CHW and ELE energy consumption also shows a slight increase. Even though the energy consumption has increased, the energy balance for the building is still within the range of the previous months. It does not seem to be a metering problem.

Recently in December 2016, the increase in ELE consumption pattern has been more significant, especially in the lower temperature range. Please see explanatory figure below for a plot of just the ELE consumption pattern.

Explanatory Figure: 13 months energy balance plot with original data



Explanatory Figure: 13 months energy consumption plot for ELE with original data



Nuclear Magnetic Resonance Facility (TAMU Bldg# 1525)

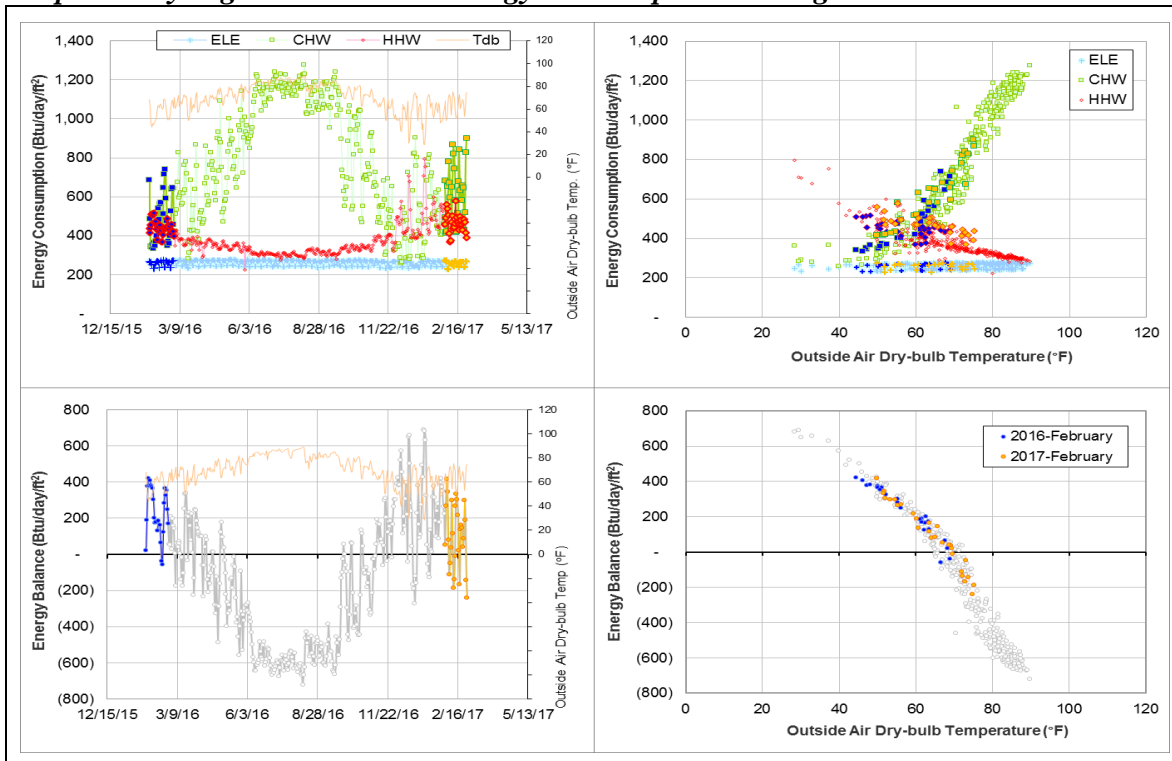
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
HHW	Increase in energy consumption pattern.	December 2016 – Ongoing

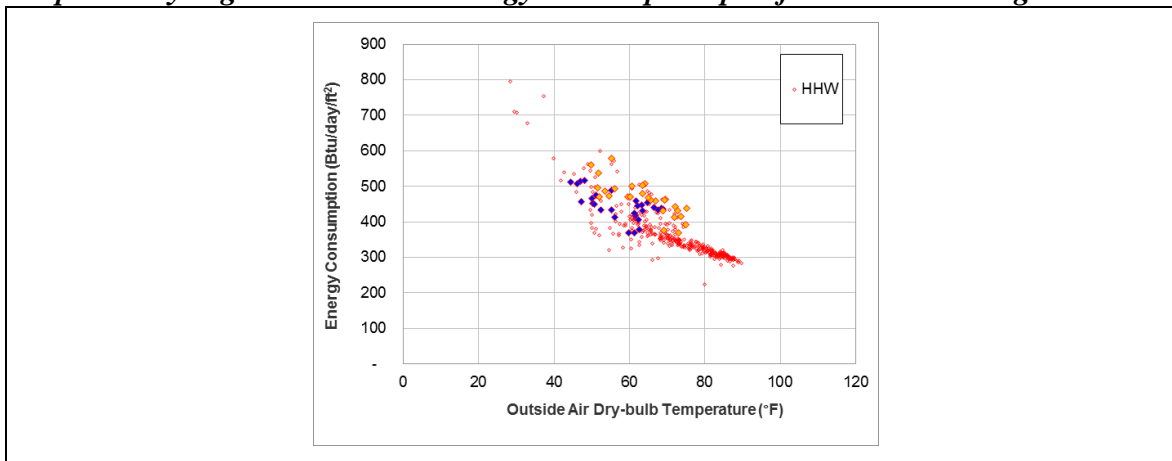
Comments

Recently in December 2016, the HHW pattern has started to increase by about 70-100 Btu/day/ft² with the larger difference appearing in warmer temperatures. However, the energy balance has maintained the same pattern, so it does not appear to be metering problem.

Explanatory Figure: 13 months energy balance plot with original data



Explanatory Figure: 13 months energy consumption plot for HHW with original data



Agriculture Public Building (TAMU Bldg# 1537)

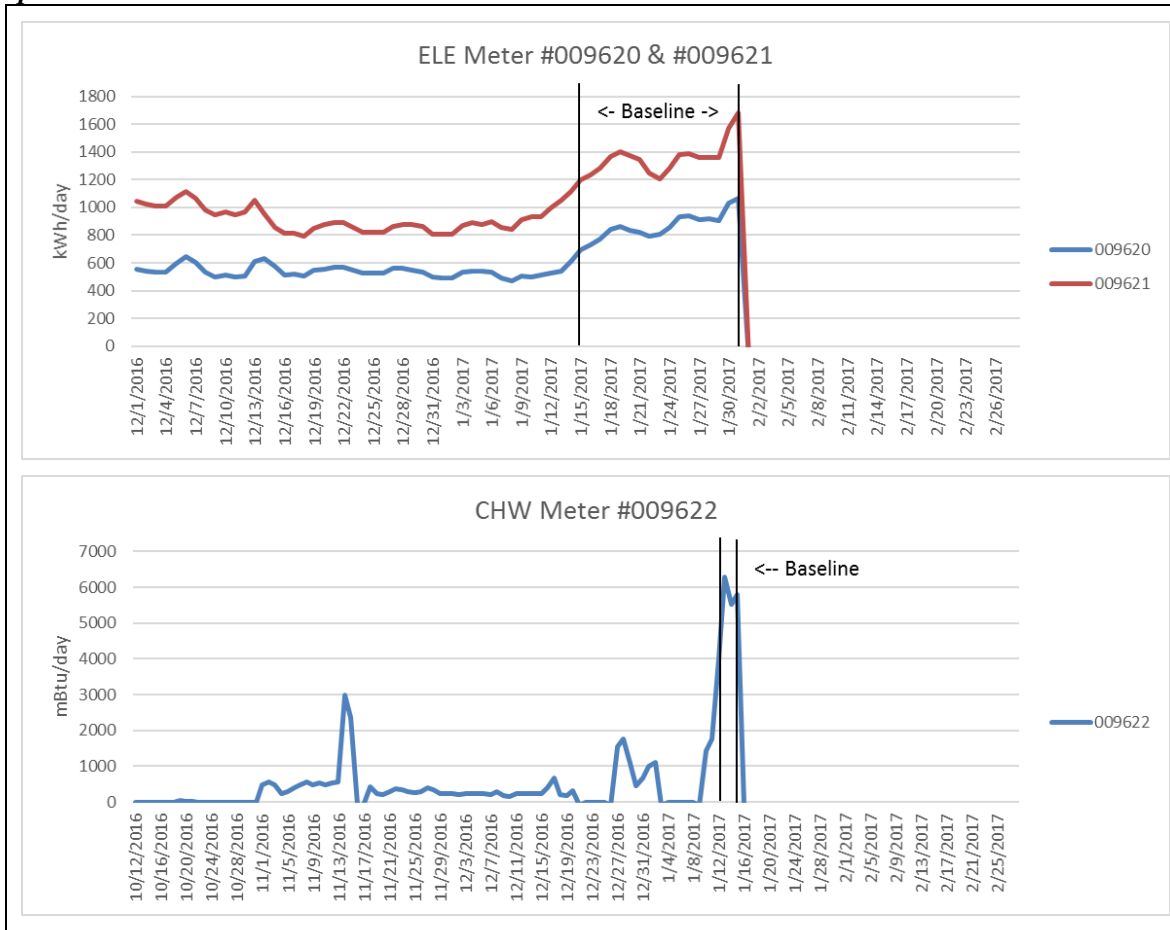
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
ELE, CHW, and HHW	Limited data available for baseline period.	February 2017

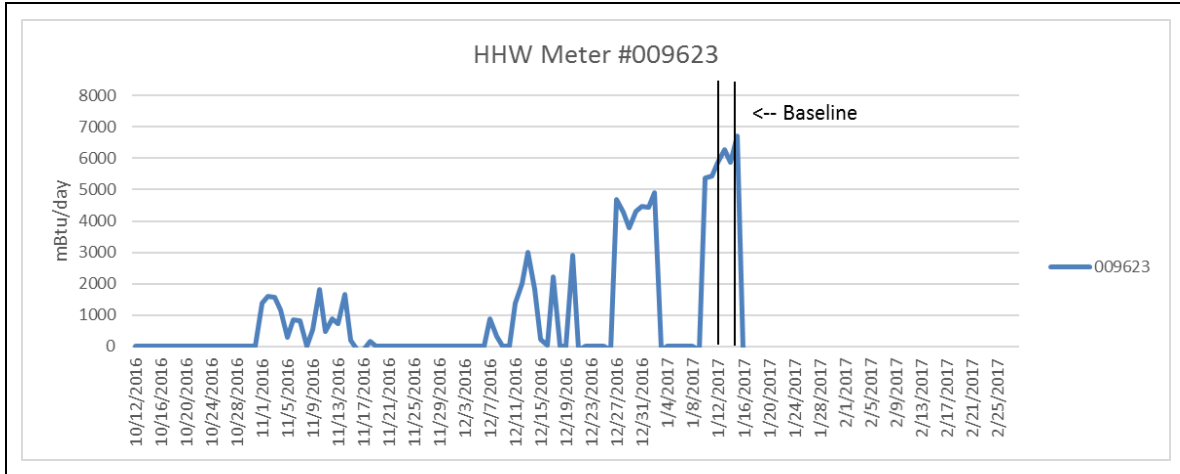
Comments

The Agriculture Public Building is a new building that was still under construction in January 2017. The ELE, CHW, and HHW data only recently became available, and it is limited to 2-3 months of data. Due to the construction, the consumption levels during these 2-3 months is not steady but continues to increase. To estimate the consumption for February, an average was calculated using the last few days of available data in order to capture highest level of consumption for each meter. The below plots show the period used estimating the February consumption. The baseline for ELE meter #009620 is 1/15/2017 – 1/31/2017 (17 days) with an average of 11 W/day/ft². The baseline for ELE meter #009621 is 1/15/2017 – 1/31/2017 (17 days) with an average of 17.3 W/day/ft². The baseline for CHW meter #009622 is 1/12/2017 – 1/15/2017 (4 days) with an average of 68.9 Btu/day/ft². The baseline for HHW meter #009623 is 1/12/2017 – 1/15/2017 (4 days) with an average of 78.8 Btu/day/ft².

Explanatory Figure: Time series plot of available ELE, and CHW data with baseline periods marked.



Explanatory Figure: Time series plot of available HHW data with baseline period marked.



Cox-McFerrin Center for Aggie Basketball (TAMU Bldg# 1558)

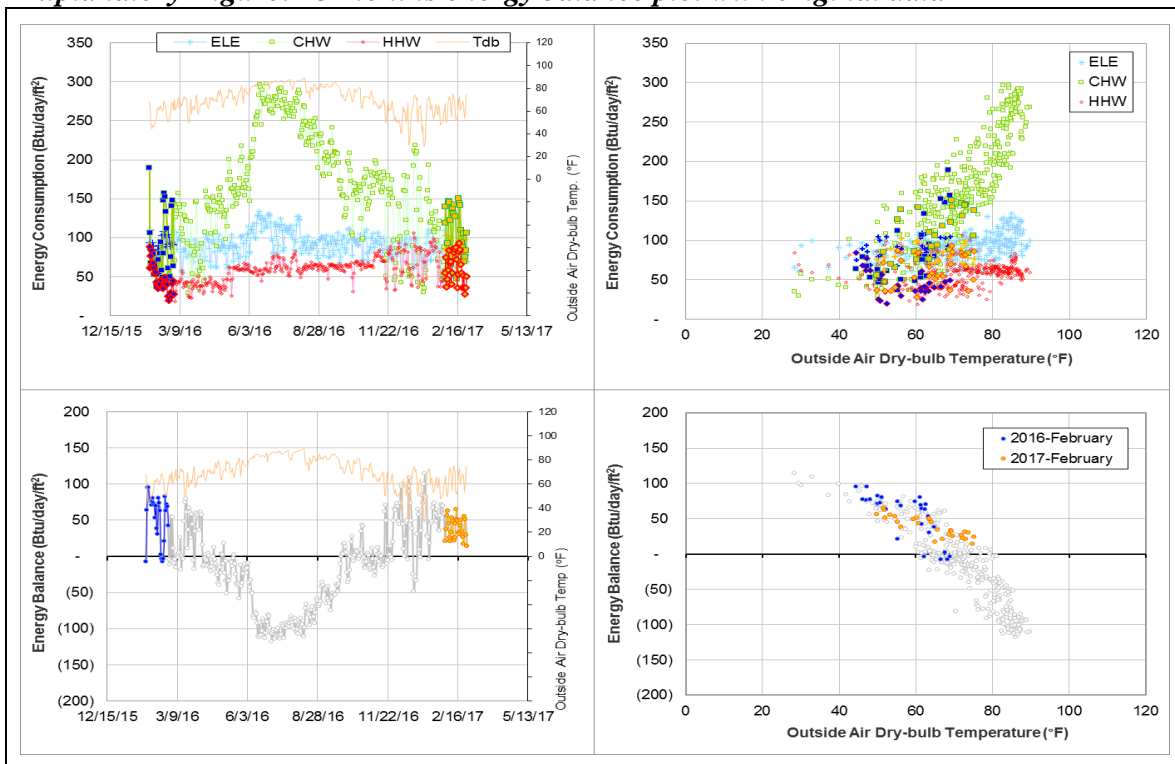
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
HHW	Consumption pattern is not weather dependent.	11/5/2016 – Ongoing

Comments

On 11/5/2016, the CHW and HHW energy consumption patterns appeared to be shifting to a higher level. The CHW consumption showed an increase in warmer temperatures by about 40 Btu/day/ft², and the HHW consumption showed an increase of 10 – 15 Btu/day/ft². In January 2017, the CHW pattern appears to be shifting back to its previous pattern. However, the HHW pattern still remains scattered and does not appear to be weather dependent.

Explanatory Figure: 13 months energy balance plot with original data



West Campus Parking Garage (TAMU Bldg# 1559)

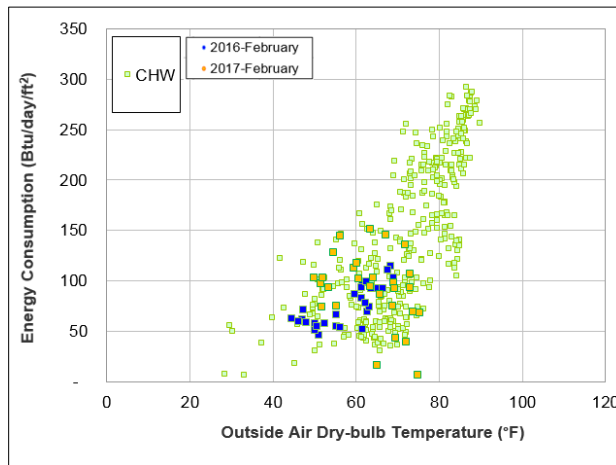
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	Pattern is scattered	February 2017

Comments

The CHW pattern appears to be scattered and independent of weather this month.

Explanatory Figure: 13 months plot of CHW data



Student Recreation Center (TAMU Bldg# 1560)

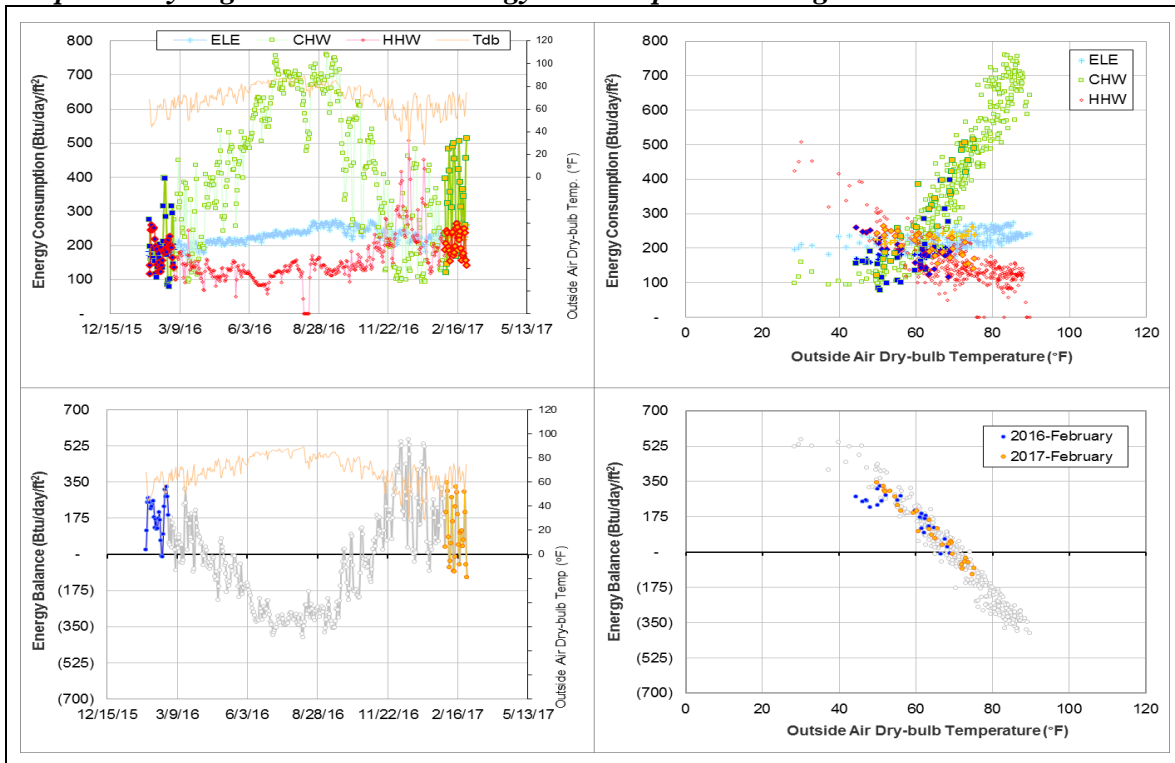
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
ELE, CHW, HHW	Increase in energy consumption pattern	11/5/2016 – Ongoing
Energy Balance	Change in pattern slope for cooler temperatures	11/5/2016 – Ongoing

Comments

The consumption patterns for ELE, CHW, and HHW are showing a slight increase. The energy balance pattern is also showing an increase in energy in the lower temperature range.

Explanatory Figure: 13 months energy balance plot with original data



International Ocean Discovery Building (TAMU Bldg# 1601)

Detected issues in the energy balance and/or the consumption data

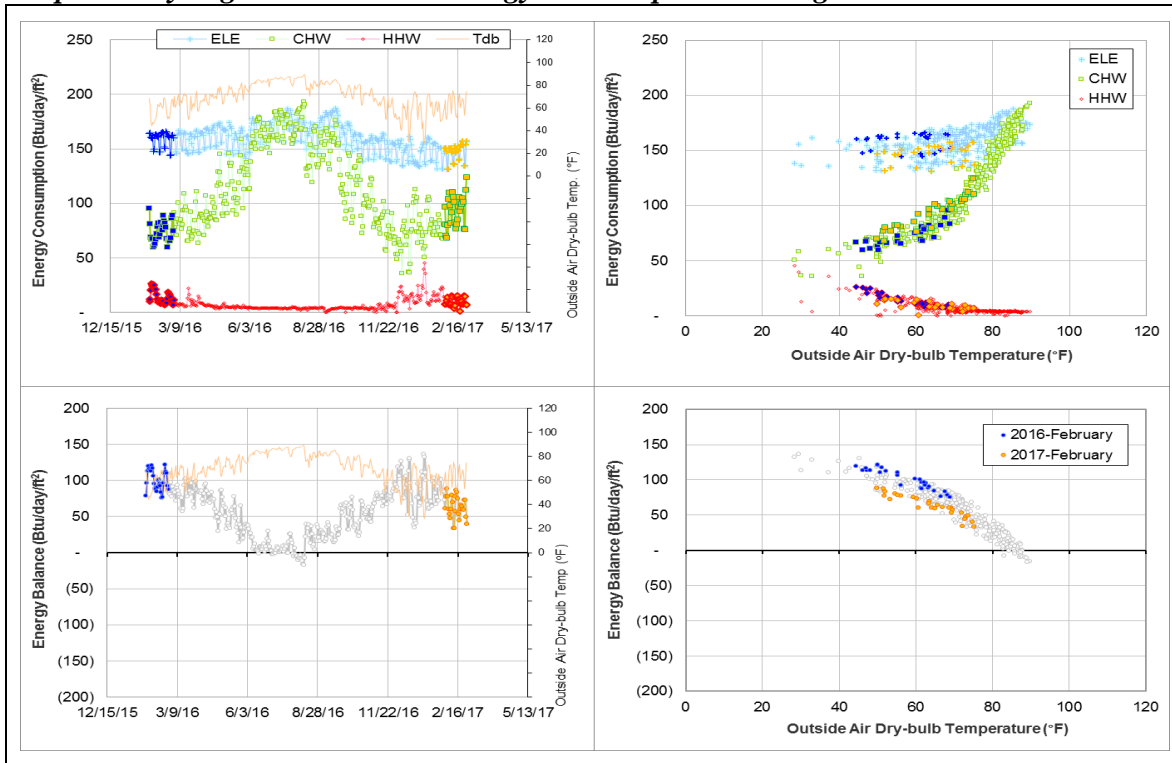
Data Type	Description of data behaviors	Period
Energy Balance	The cross-point is high, around 85°F.	Since data became available in Feb 2015

Comments

The cross-point temperature is high for this building, around 85°F. The daily CHW consumption for last year is 36 – 200 Btu/day/ft². The CHW consumption level is low compared to ELE and HHW levels. This building might have its own chillers.

Recently, the ELE consumption appears to have dropped compared to the same month last year, and the CHW is showing a slight increase. The energy balance is also decreasing and may have a lower cross-point temperature. We will not know for sure until the warmer months.

Explanatory Figure: 13 months energy balance plot with original data



Offshore Technology Research Center (TAMU Bldg# 1604)

Detected issues in the energy balance and/or the consumption data

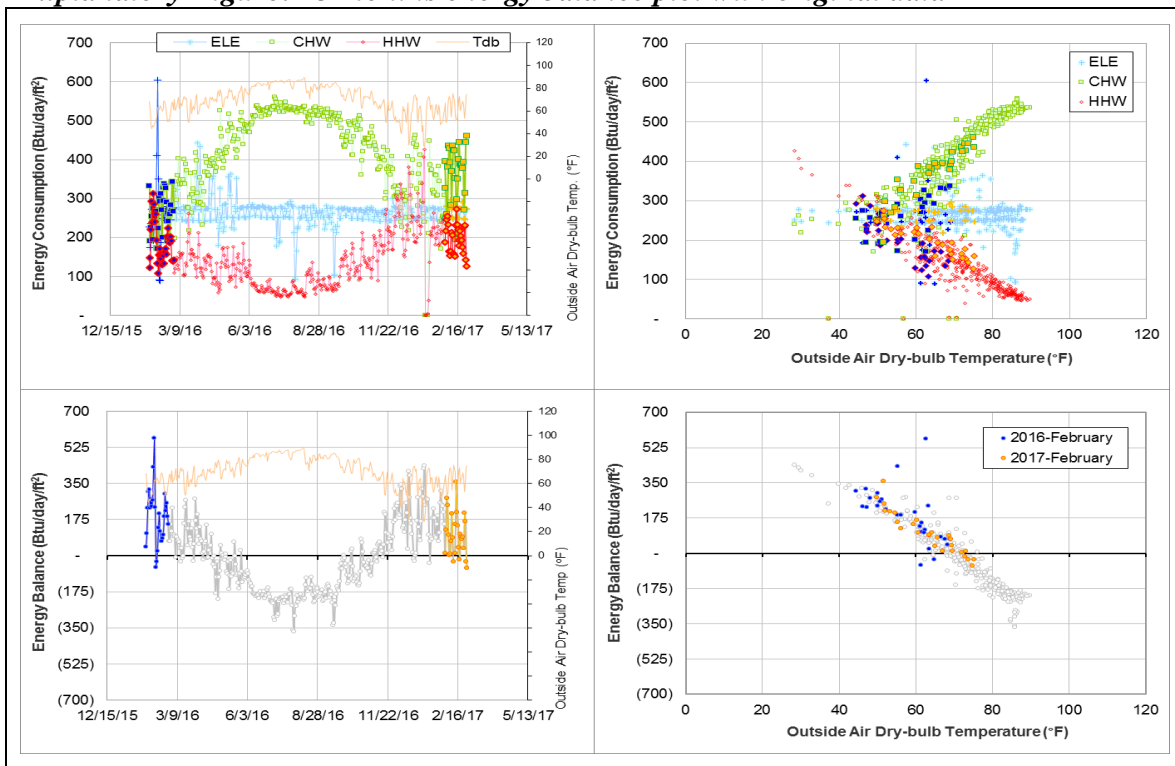
Data Type	Description of data behaviors	Period
ELE #006660	Consumption is zero for most of the time.	2/1/2015 – Ongoing
CHW and HHW	The consumption level is higher than that of last year.	5/1/2016 – Ongoing

Comments

The electric consumption for meter #006660 has been zero for most of the time it has been available since 2/1/2015. Does this meter measure consumption for a specific piece of equipment that only run occasionally?

New consumption patterns appear to be developing starting May 2016. The CHW consumption level is showing an overall increase, most notably in the warmer months. The HHW consumption level is also showing an increase for warmer temperatures. However, the energy balance maintained the same pattern. It does not appear to be metering problem.

Explanatory Figure: 13 months energy balance plot with original data



TTI Headquarters (TAMU Bldg# 1609)

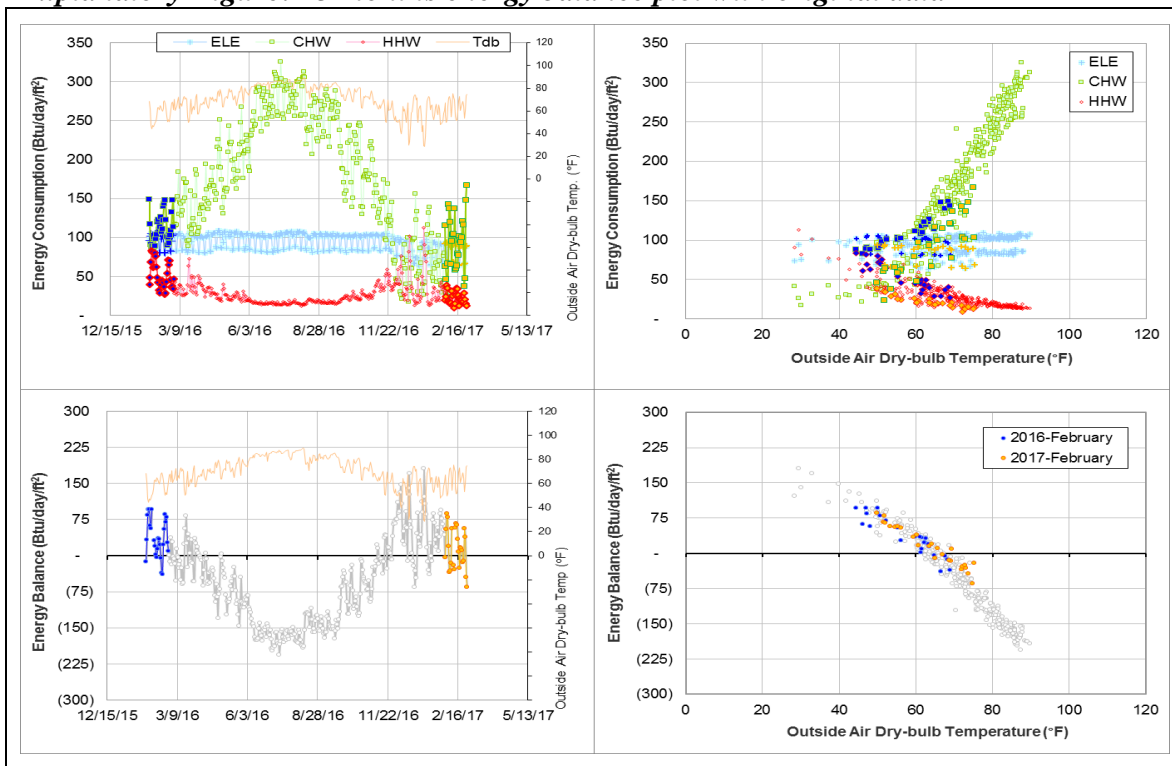
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
CHW	Decrease in energy consumption pattern.	February 2017
HHW	Decrease in energy consumption pattern.	February 2017

Comments

The CHW and HHW consumption are showing a decrease compared to the past 13 months. Both CHW and HHW have a very clear pattern. CHW is even showing weekday/weekend pattern. This building is listed as an ESCO building.

Explanatory Figure: 13 months energy balance plot with original data



National Center for Therapeutics Manufacturing (TAMU Bldg# 1910)

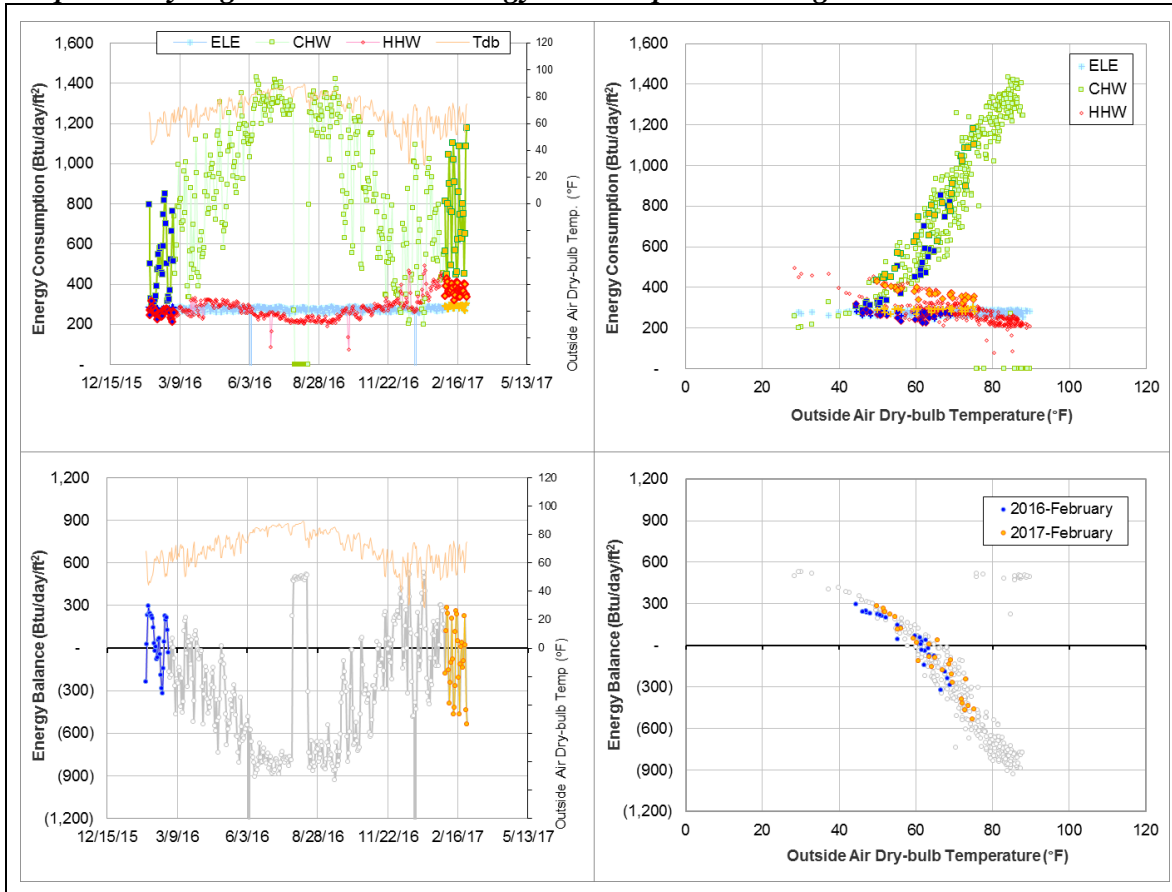
Detected issues in the energy balance and/or the consumption data

Data Type	Description of data behaviors	Period
HHW	Increase in energy consumption pattern.	February 2017

Comments

The HHW is showing an increase in consumption by about 80-100 Btu/day/ft². Even with the increase, the energy balance has not changed. It does not appear to be a meter issue.

Explanatory Figure: 13 months energy balance plot with original data



III. Time Series Plots for February 2017 Consumption

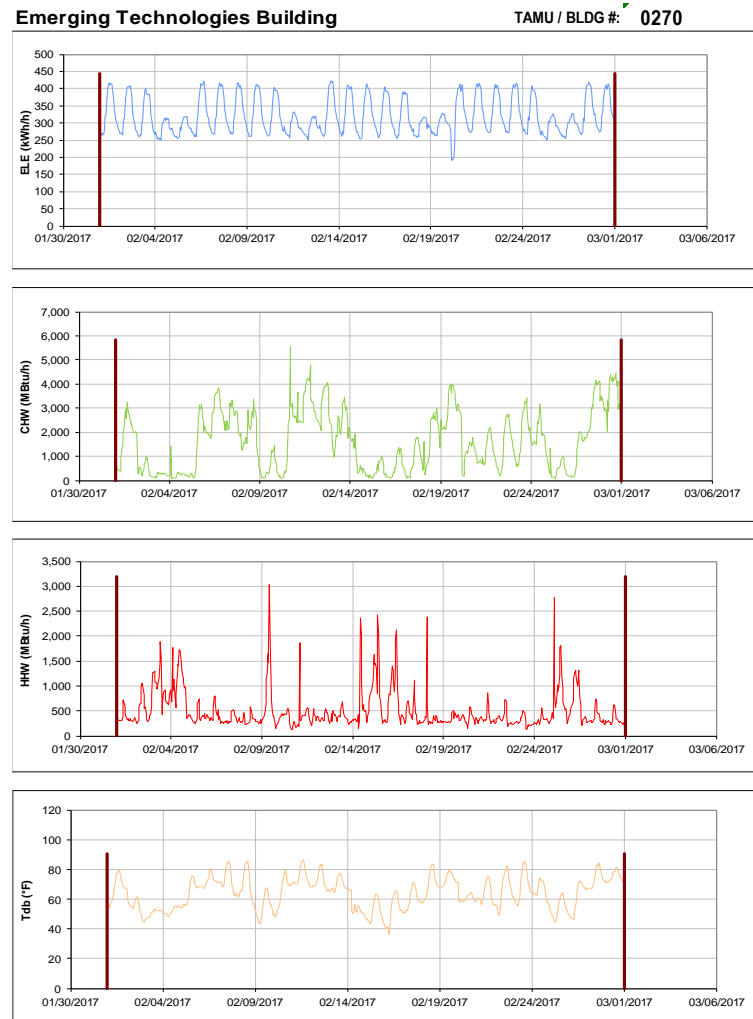


Figure III-1 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Emerging Technologies Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

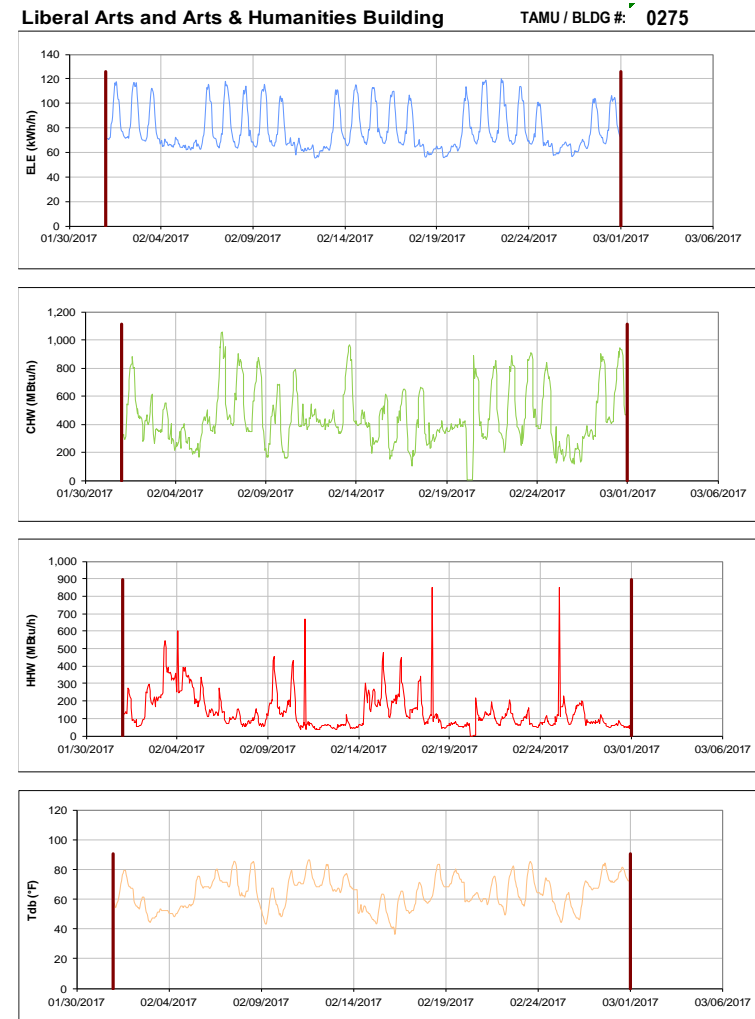


Figure III-2 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Liberal Arts and Arts & Humanities Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

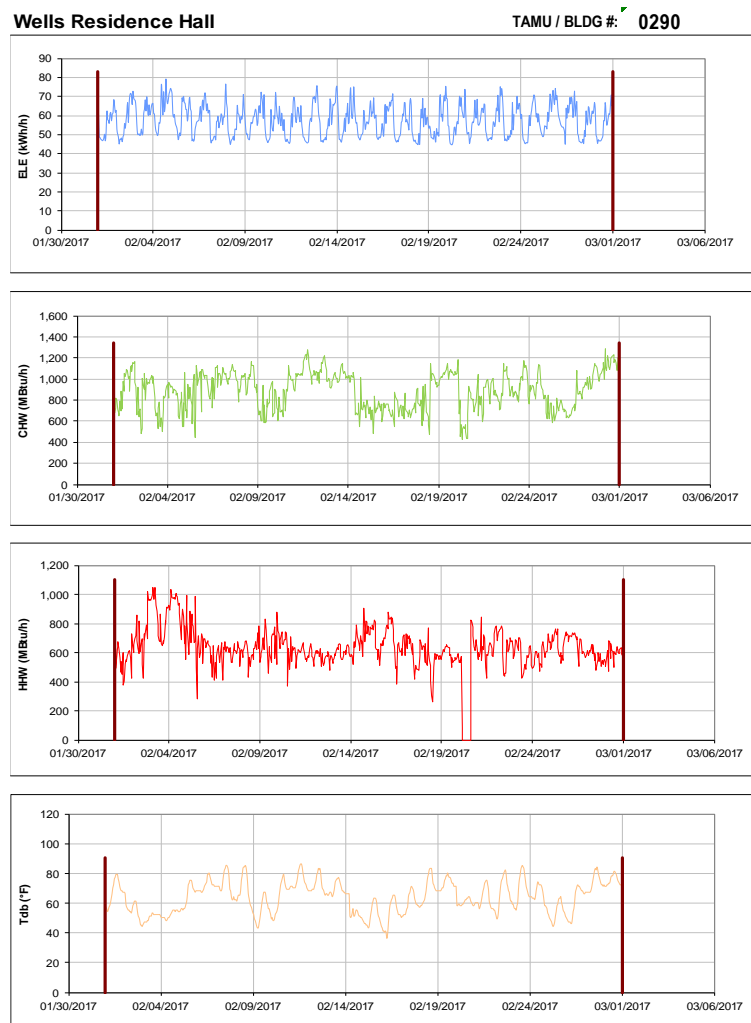


Figure III-3 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wells Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

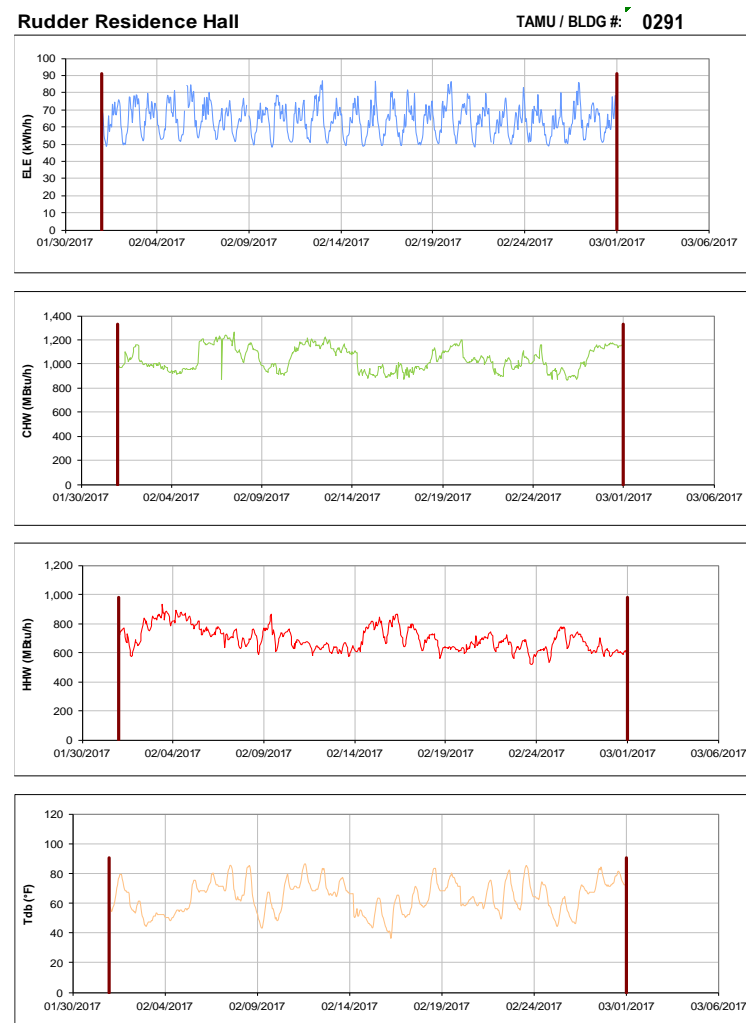


Figure III-4 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Eppright Residence Hall

TAMU / BLDG #: 0292

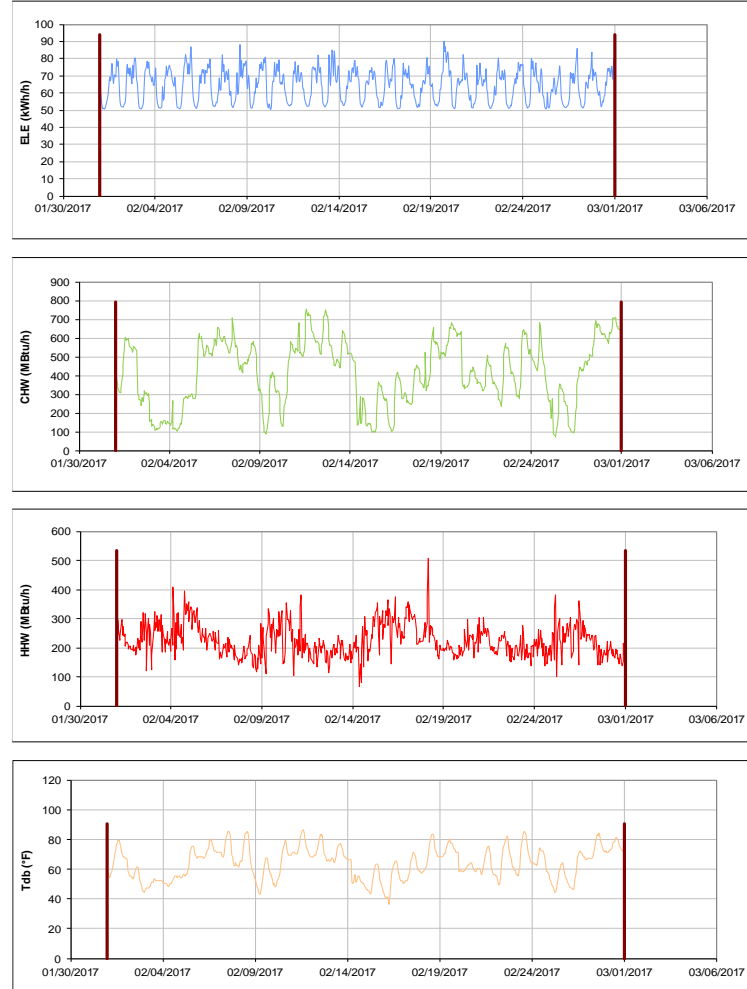


Figure III-5 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Eppright Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Appelt Residence Hall

TAMU / BLDG #: 0293

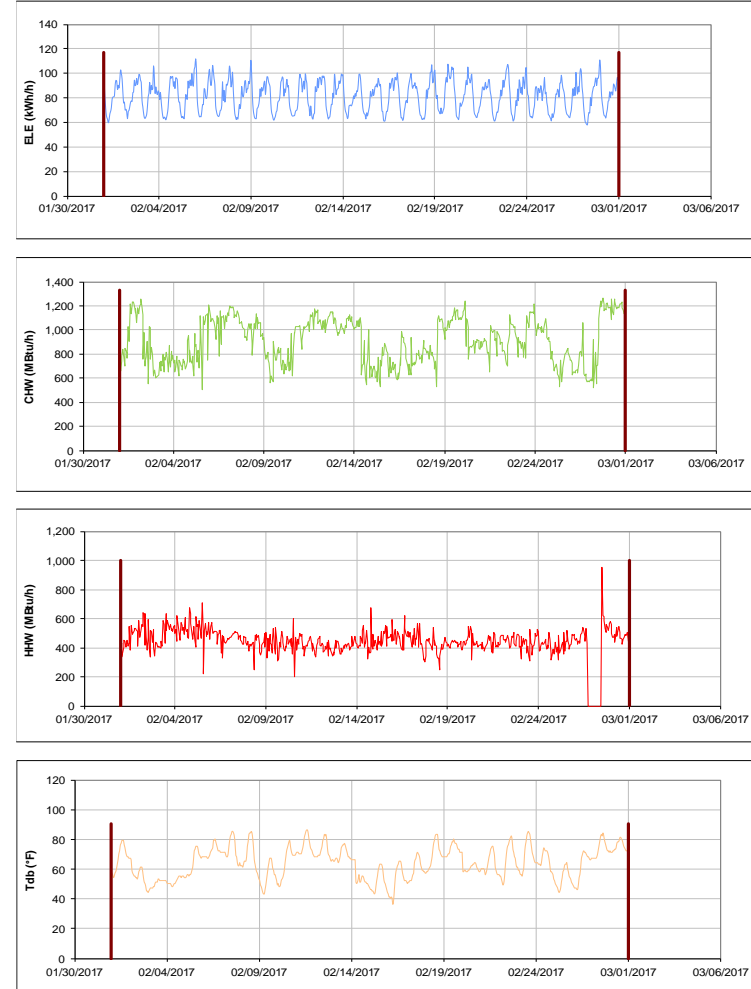


Figure III-6 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Appelt Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Lechner Residence Hall

TAMU / BLDG #: 0294

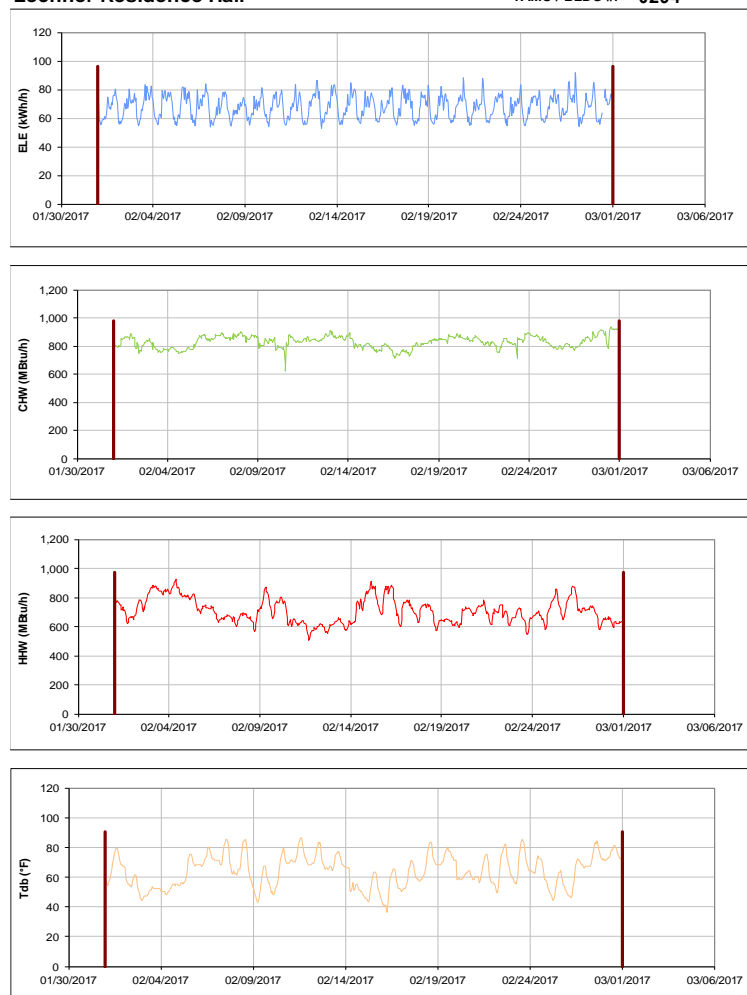


Figure III-7 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lechner Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Mitchell Inst. for Fundamental Phys & Astronomy TAMU / BLDG #: 296-0297

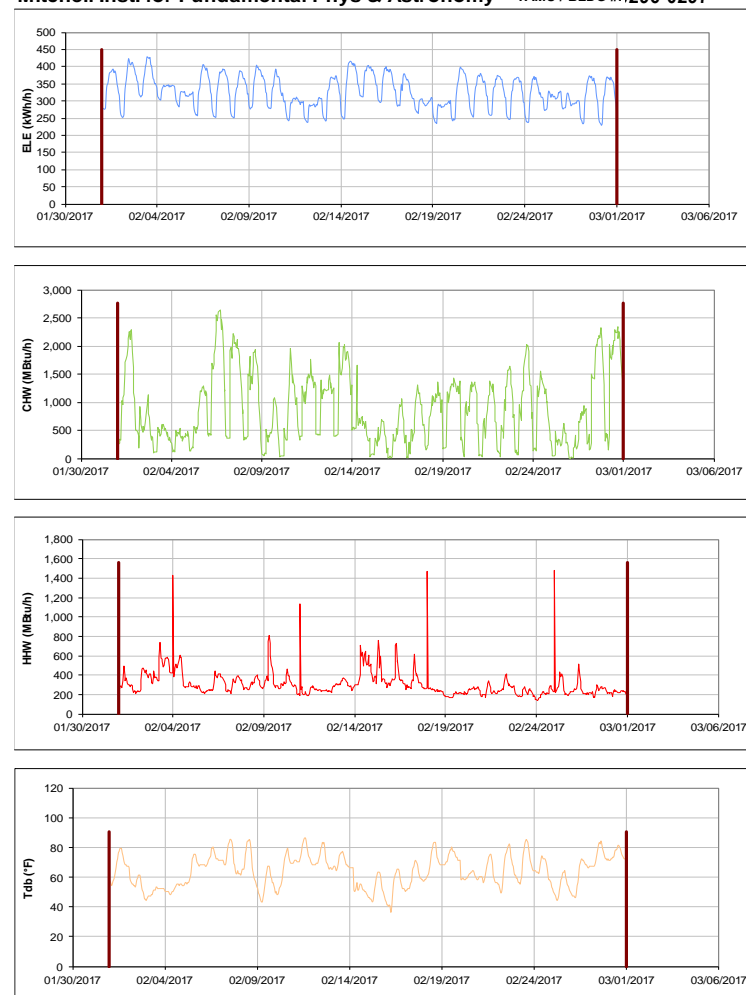


Figure III-8 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mitchell Inst. for Fundamental Phys & Astronomy during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

CE TTI Office & Lab Building

TAMU / BLDG #: 1325-0385

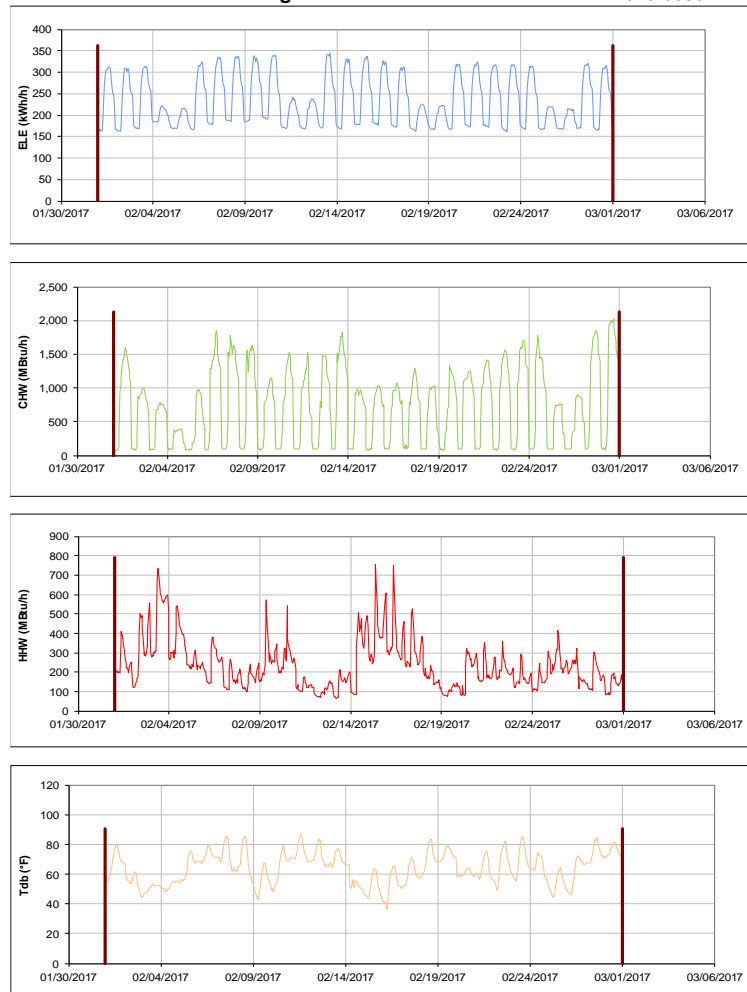


Figure III-9 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for CE TTI Office & Lab Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Bright Aerospace Building

TAMU / BLDG #: 0353



Figure III-10 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bright Aerospace Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Davis Football Player Development Center TAMU / BLDG #: 0358

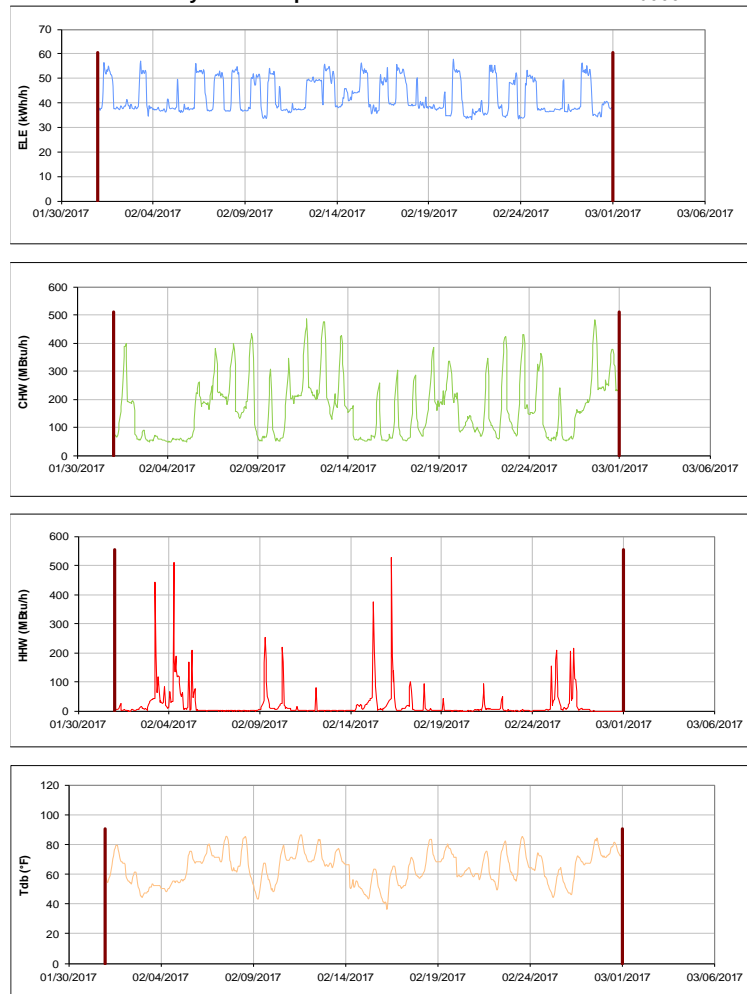


Figure III-11 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Davis Football Player Development Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Architecture Building B TAMU / BLDG #: 0359

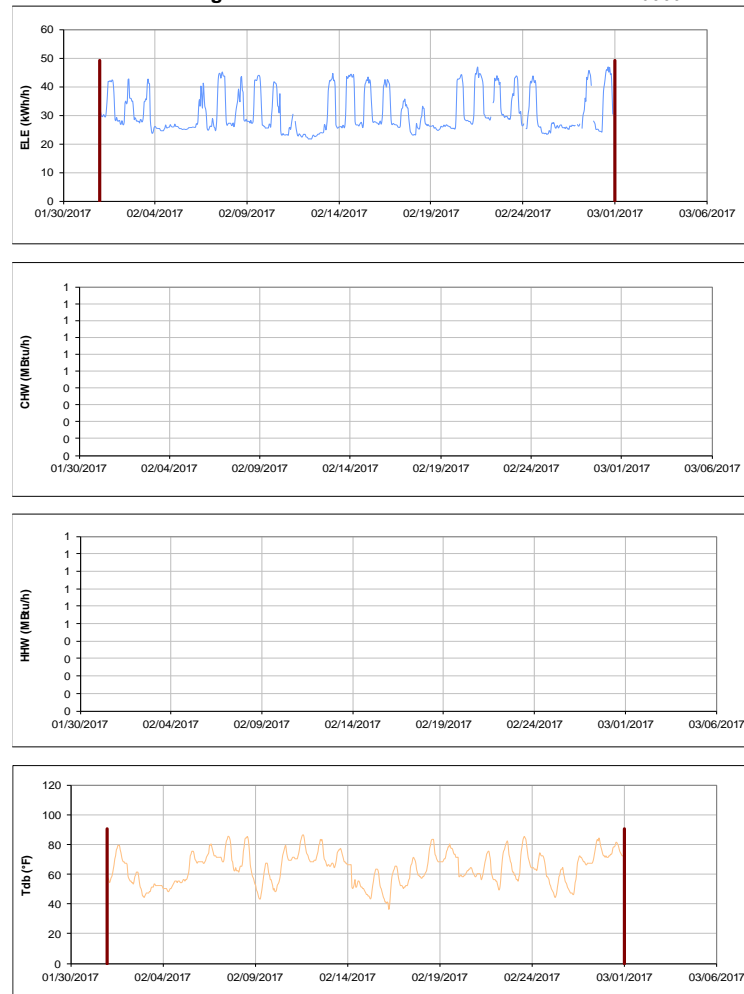


Figure III-12 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building B during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Architecture Building B&C

TAMU / BLDG #: 1359-0432

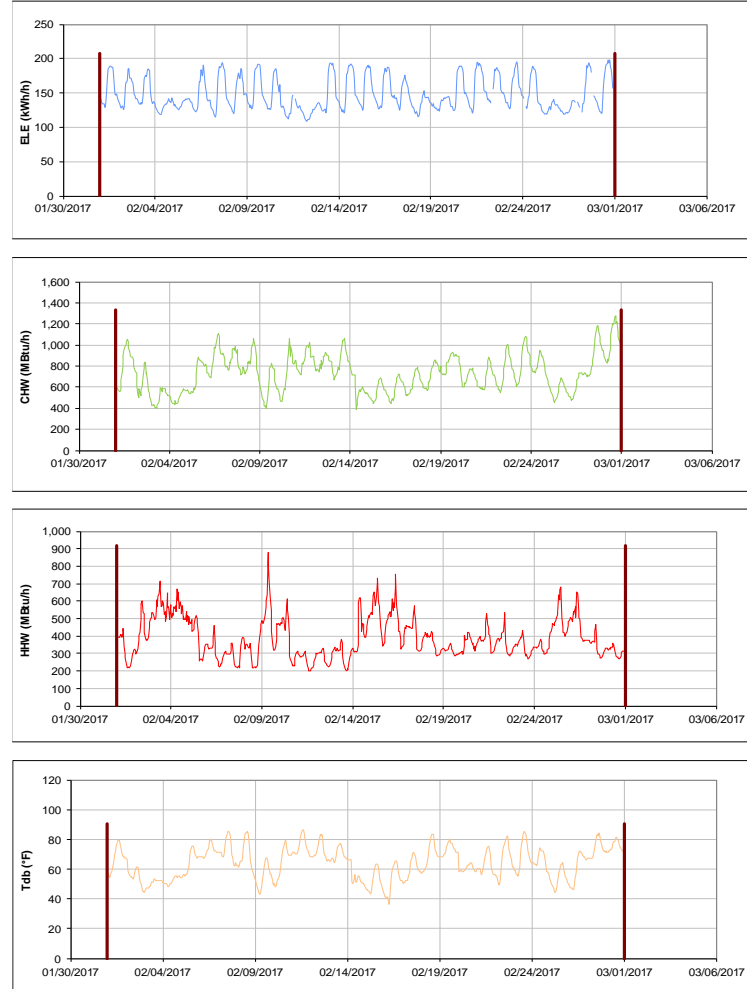


Figure III-13 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building B&C during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Bright Football Complex

TAMU / BLDG #: 0361

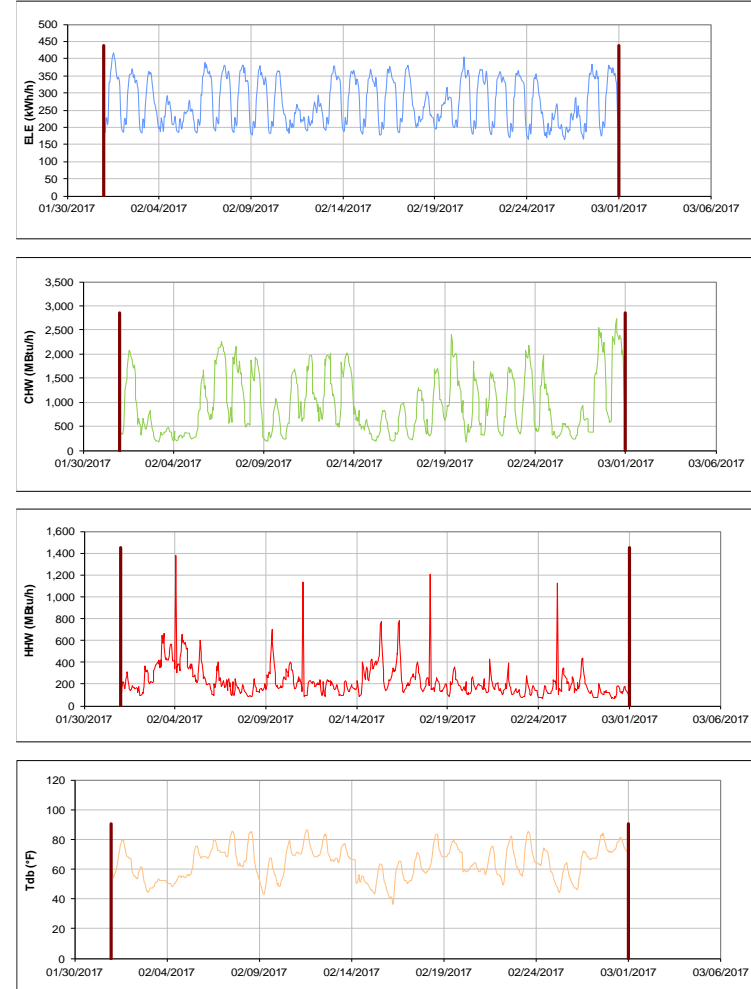


Figure III-14 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bright Football Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

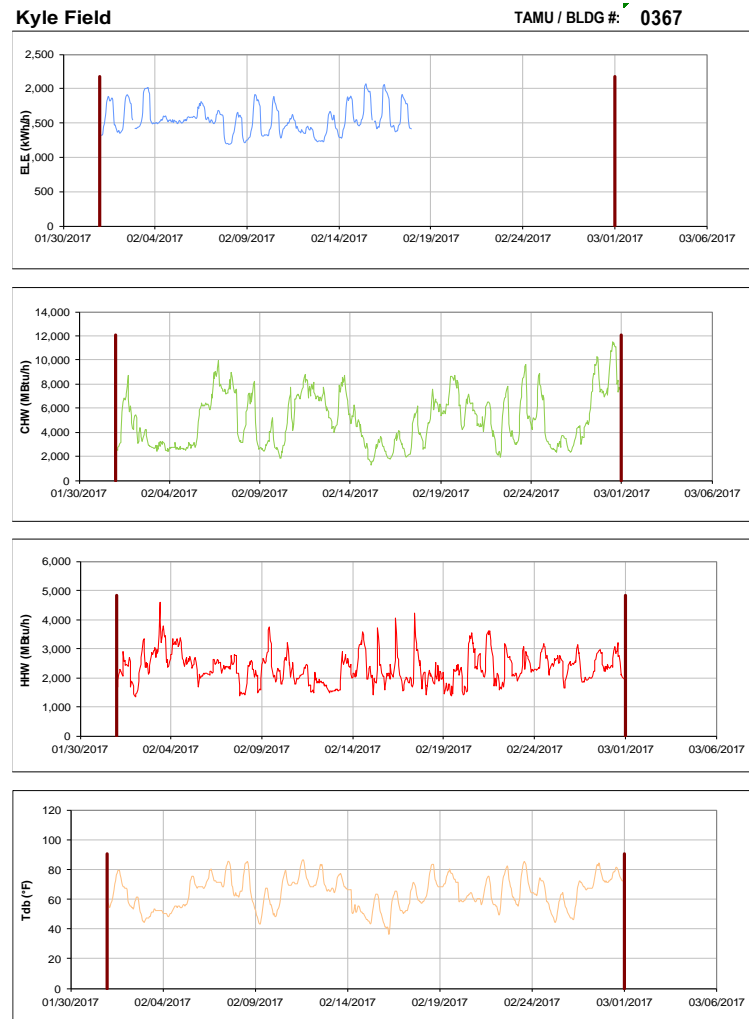


Figure III-15 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kyle Field during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX



Figure III-16 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Chemistry Building Addition during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

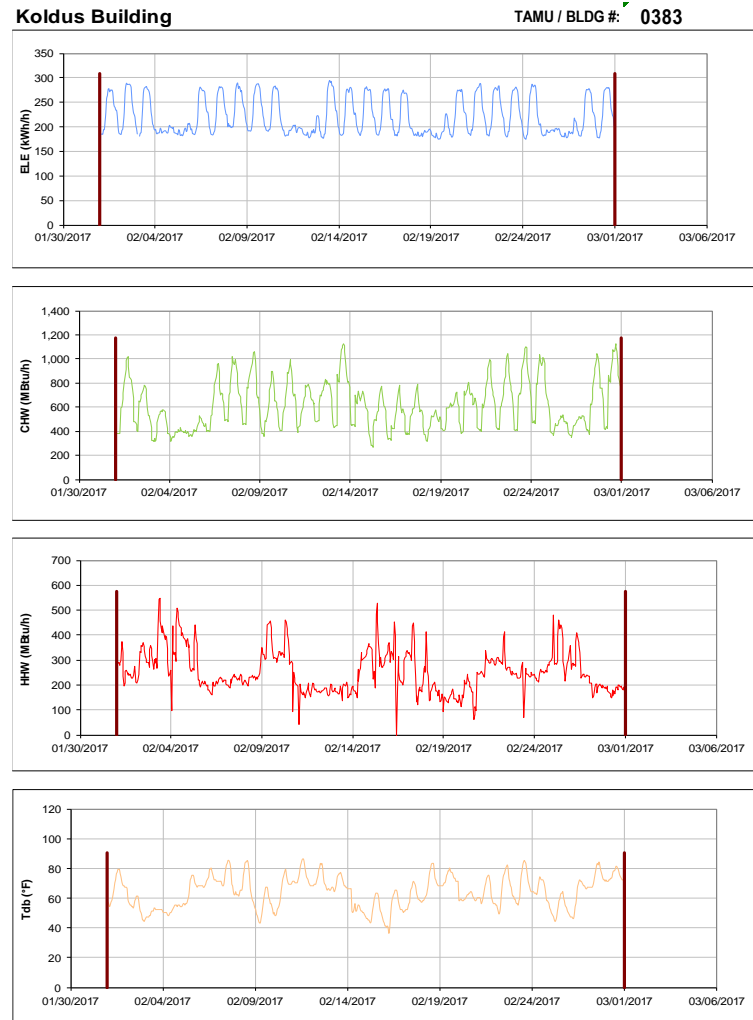


Figure III-17 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Koldus Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

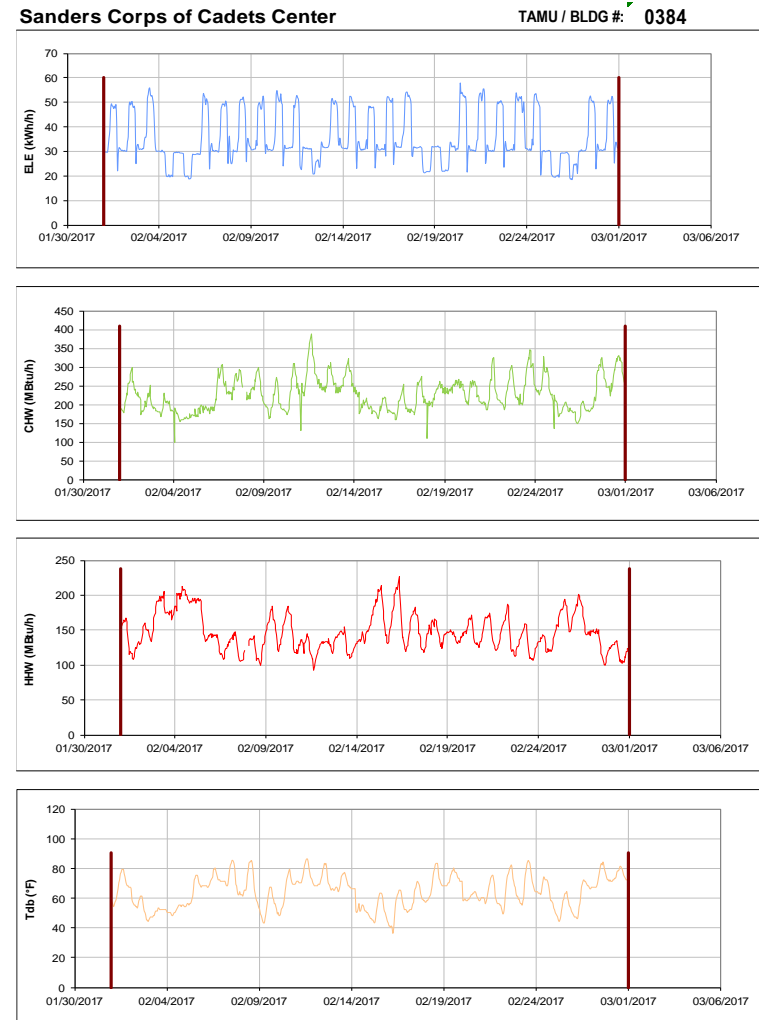


Figure III-18 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Sanders Corps of Cadets Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Jack E. Brown Chemical Engineering Building TAMU / BLDG #: 0386



Figure III-19 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Jack E. Brown Chemical Engineering Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Richardson Petroleum Engineering Building TAMU / BLDG #: 0387

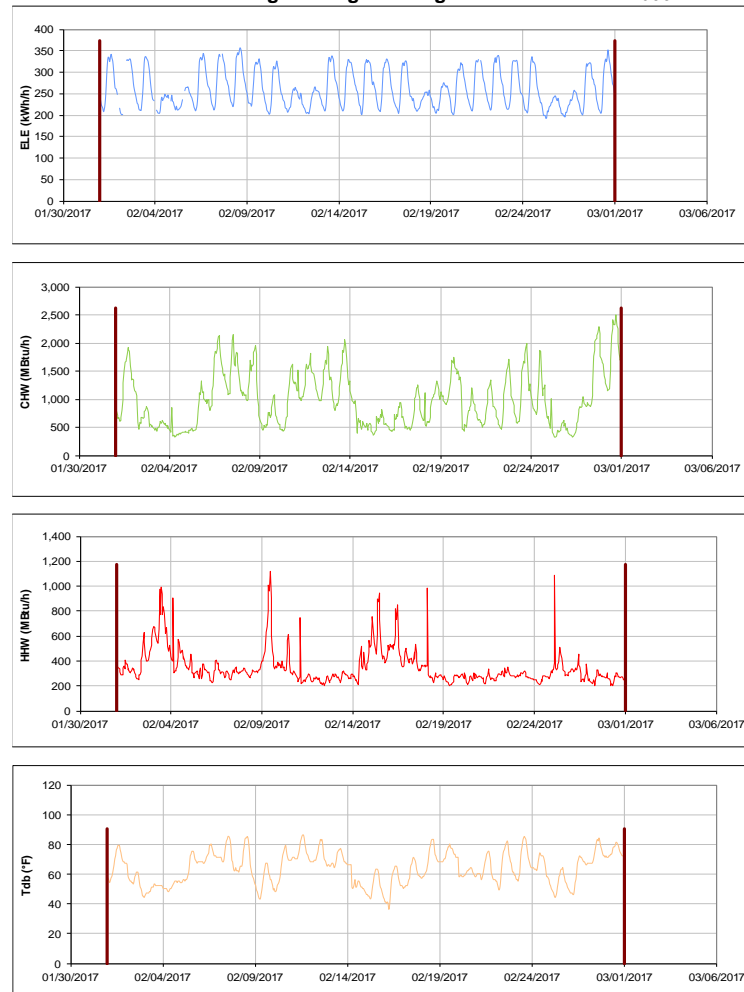


Figure III-20 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Richardson Petroleum Engineering Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

James J. Cain'51 and Mechanical Engineering Office Bldg / BLDG #: 1391-0392

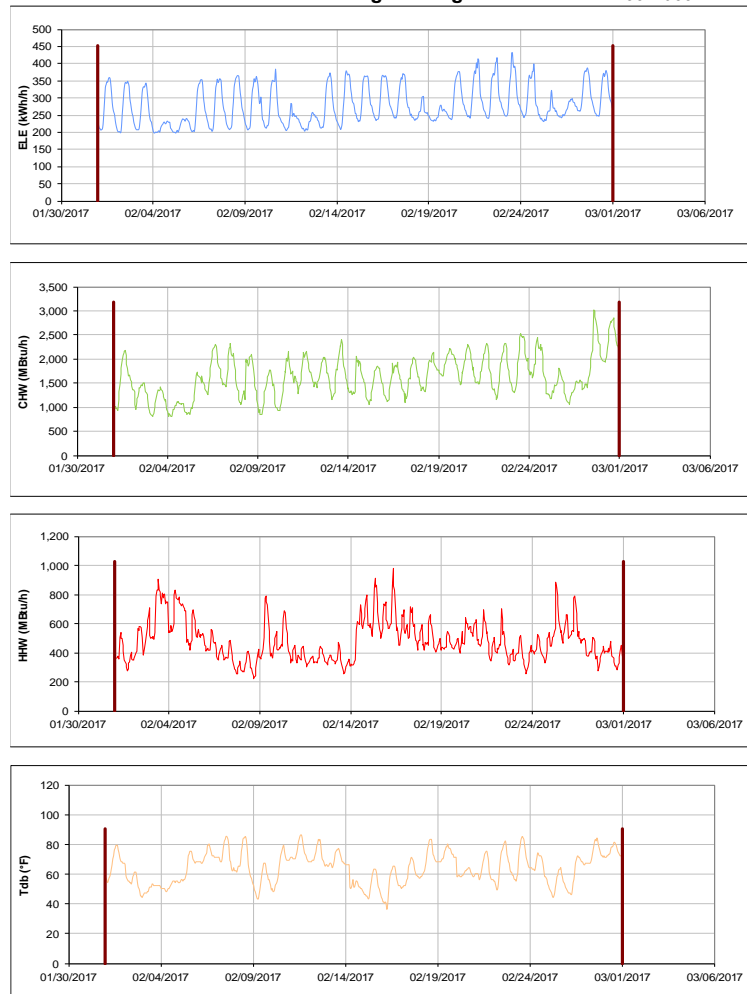


Figure III-21 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for James J. Cain'51 and Mechanical Engineering Office Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station,

Underwood Residence Hall

TAMU / BLDG #: 0394

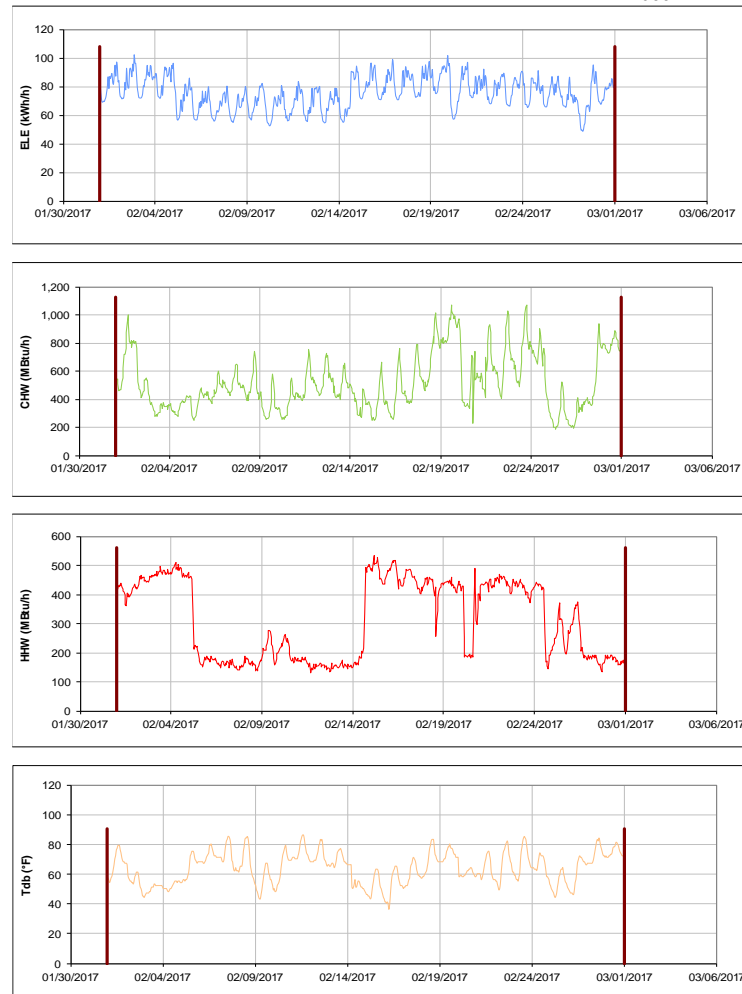


Figure III-22 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Underwood Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

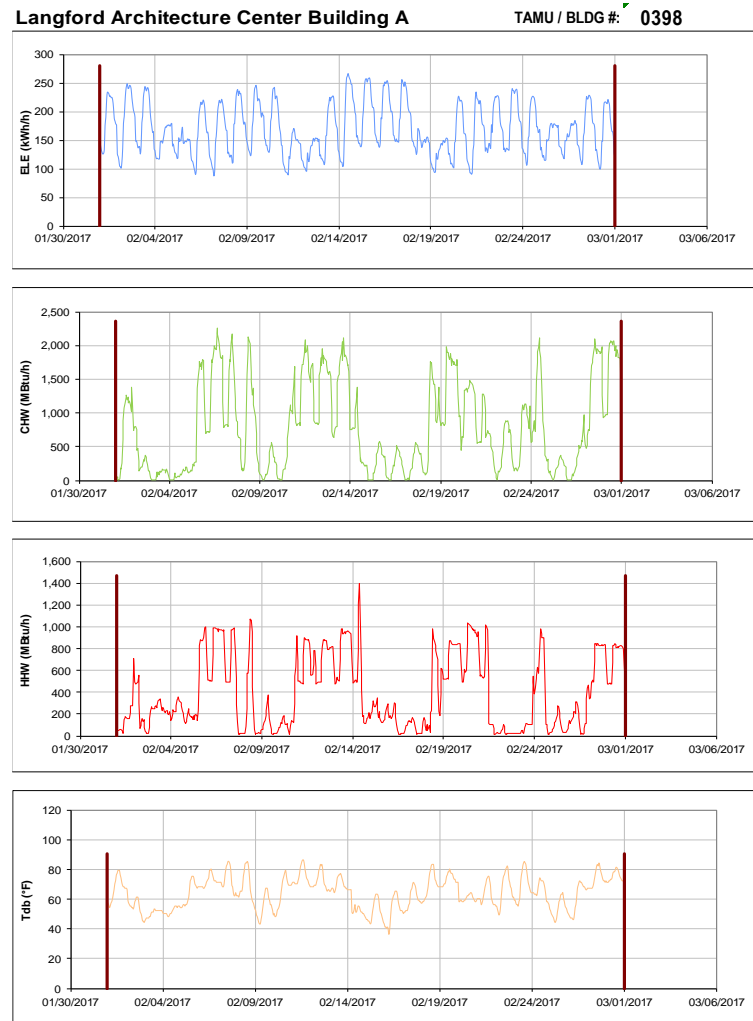


Figure III-23 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Langford Architecture Center Building A during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

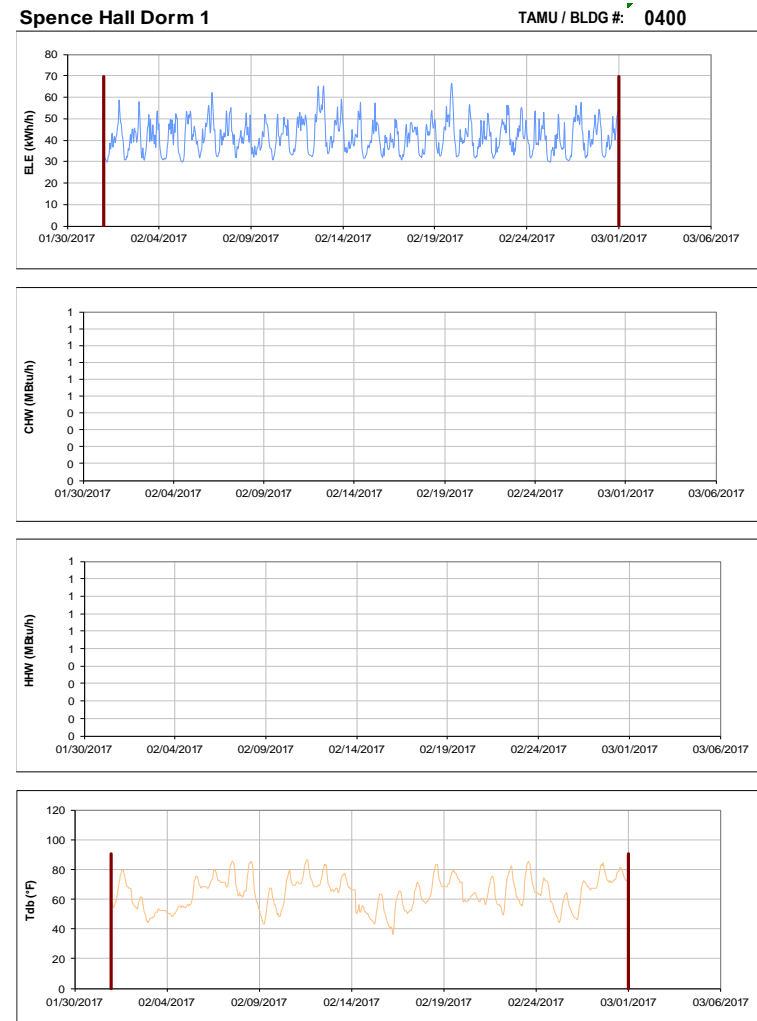


Figure III-24 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Spence Hall Dorm 1 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Spence Hall, Briggs Hall, and Ash II LLC TAMU / BLDG #: 0-0402-1405

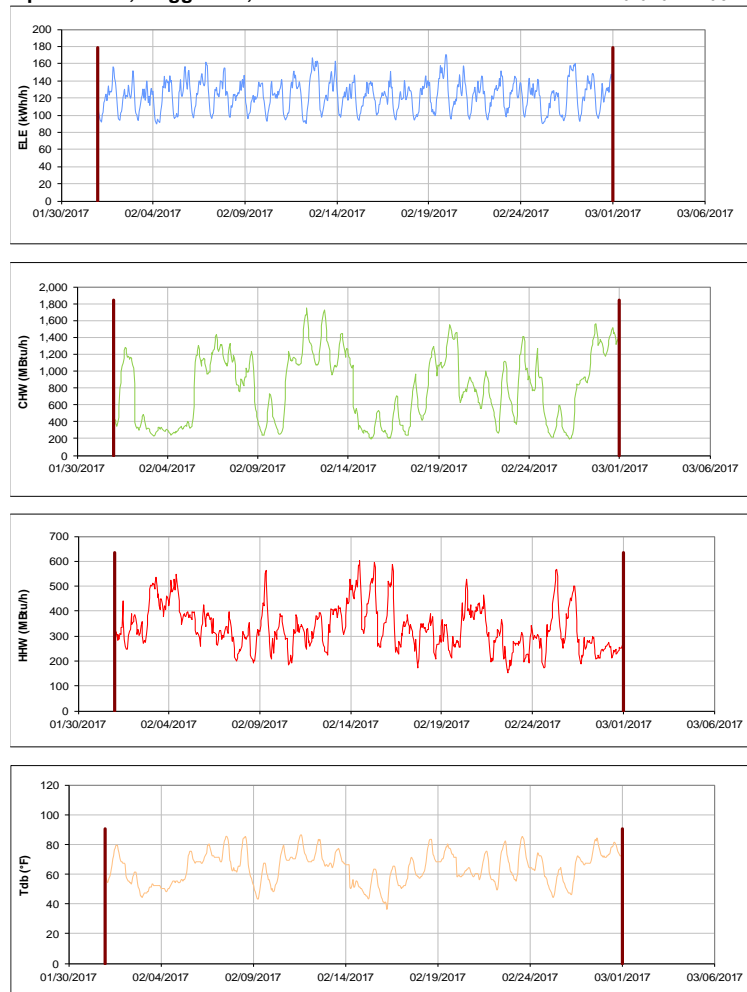


Figure III-25 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Spence Hall, Briggs Hall, and Ash II LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Kiest Hall Dorm 2 TAMU / BLDG #: 0401

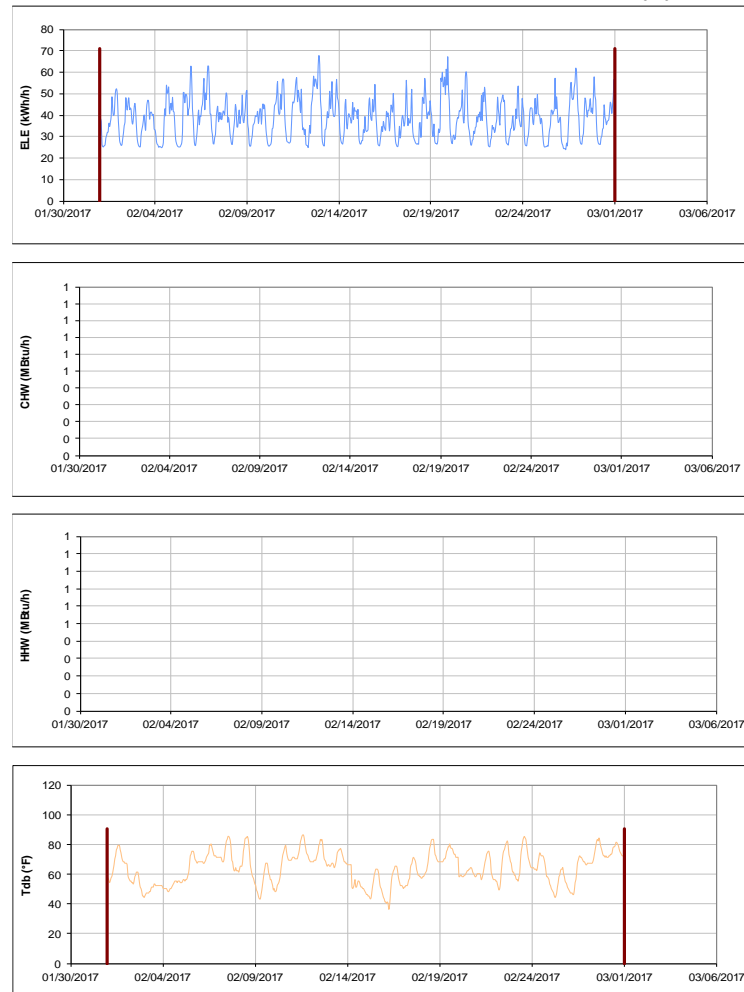


Figure III-26 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kiest Hall Dorm 2 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Kiest Hall, Fountain Hall, and Plank LLC TAMU / BLDG #: 1-0403-1404

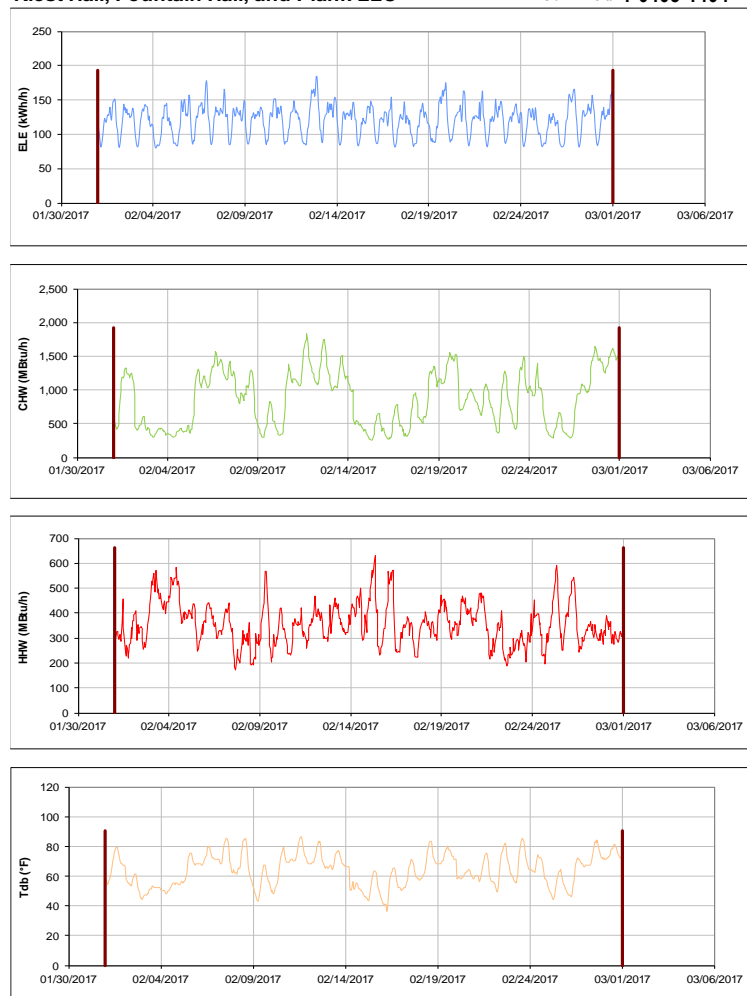


Figure III-27 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kiest Hall, Fountain Hall, and Plank LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Briggs Hall Dorm 3 TAMU / BLDG #: 0402



Figure III-28 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Briggs Hall Dorm 3 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Fountain Hall Dorm 4

TAMU / BLDG #: 0403

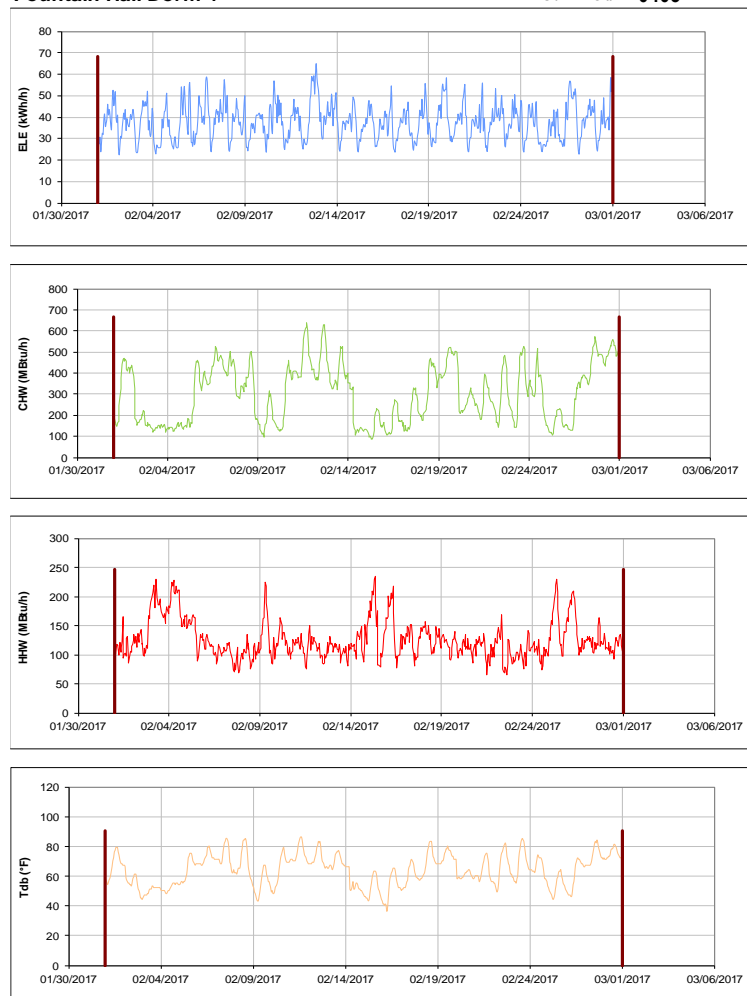


Figure III-29 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Fountain Hall Dorm 4 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Gainer Hall Dorm 5

TAMU / BLDG #: 0404

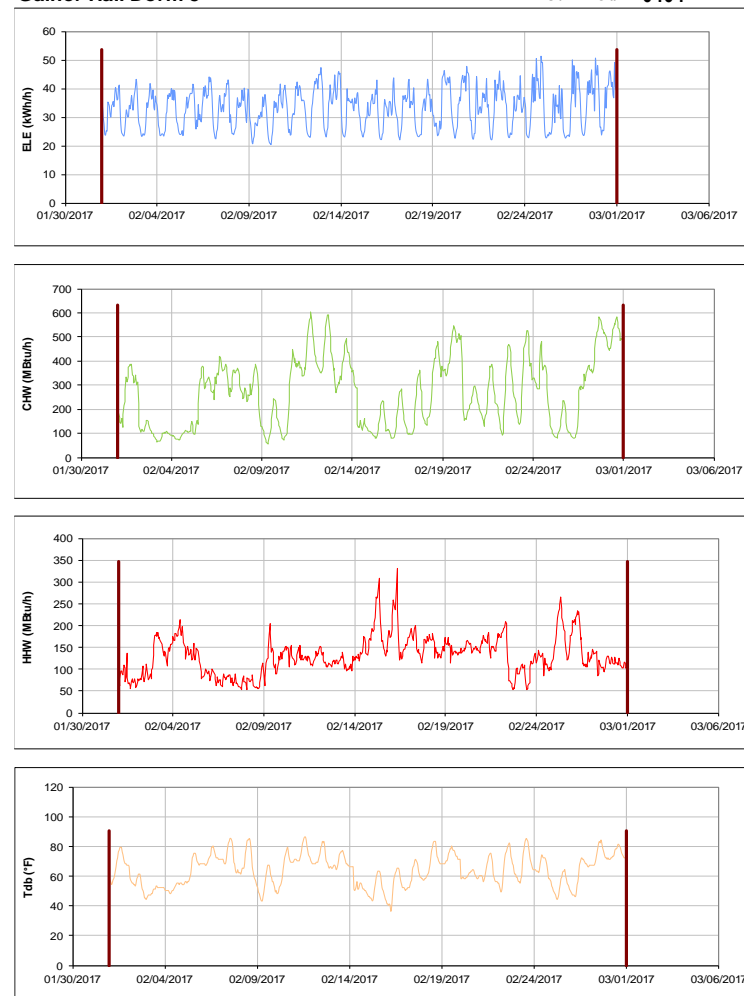


Figure III-30 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Gainer Hall Dorm 5 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Gainer Hall, Leonard Hall and Ash LLC

TAMU / BLDG #: 4-0406-1403

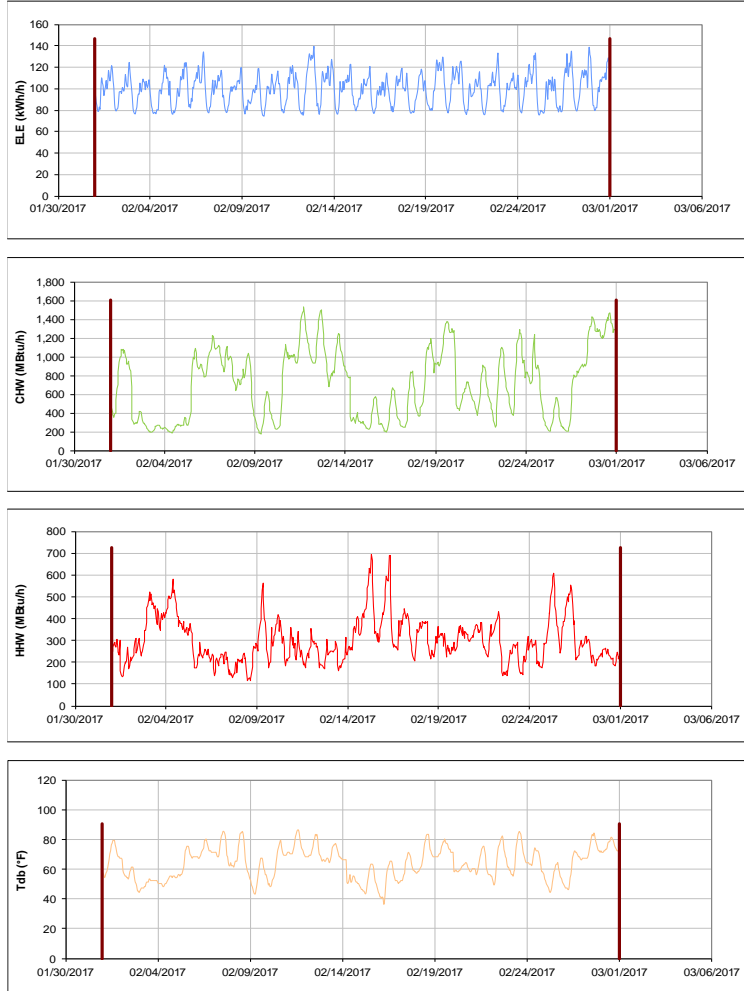


Figure III-31 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Gainer Hall, Leonard Hall and Ash LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Lacy Hall - Dorm 6

TAMU / BLDG #: 0405

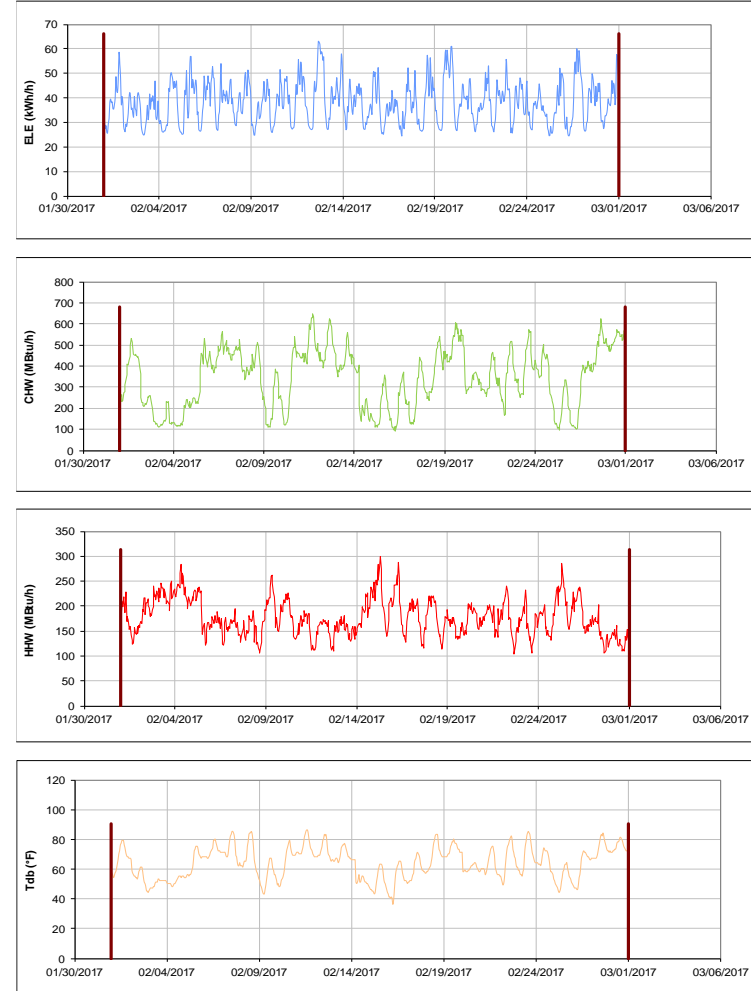


Figure III-32 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lacy Hall - Dorm 6 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center / BLDG #: 5-0407-1402

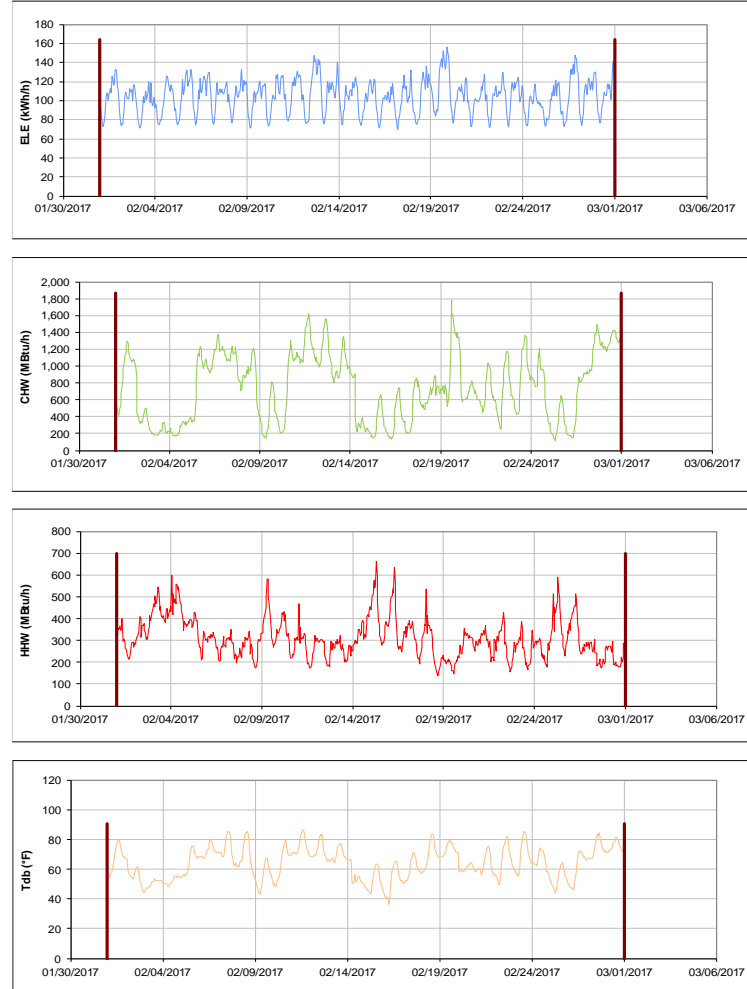


Figure III-33 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Leonard Hall - Dorm 7

TAMU / BLDG #: 0406

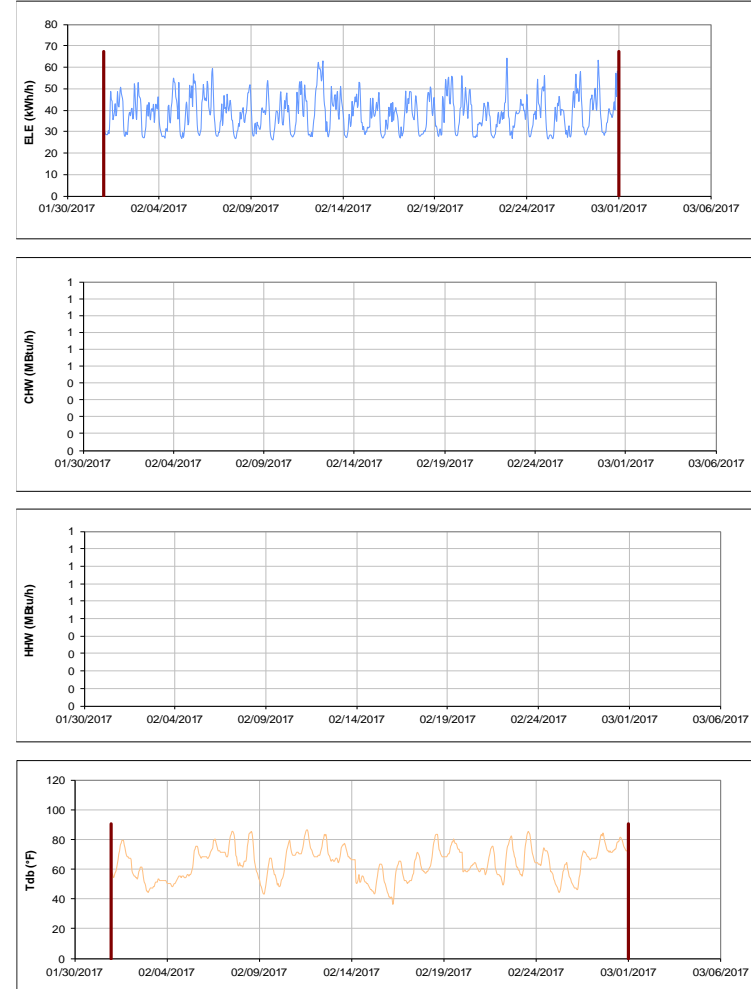


Figure III-34 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Leonard Hall - Dorm 7 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Harrell Hall - Dorm 8

TAMU / BLDG #: 0407

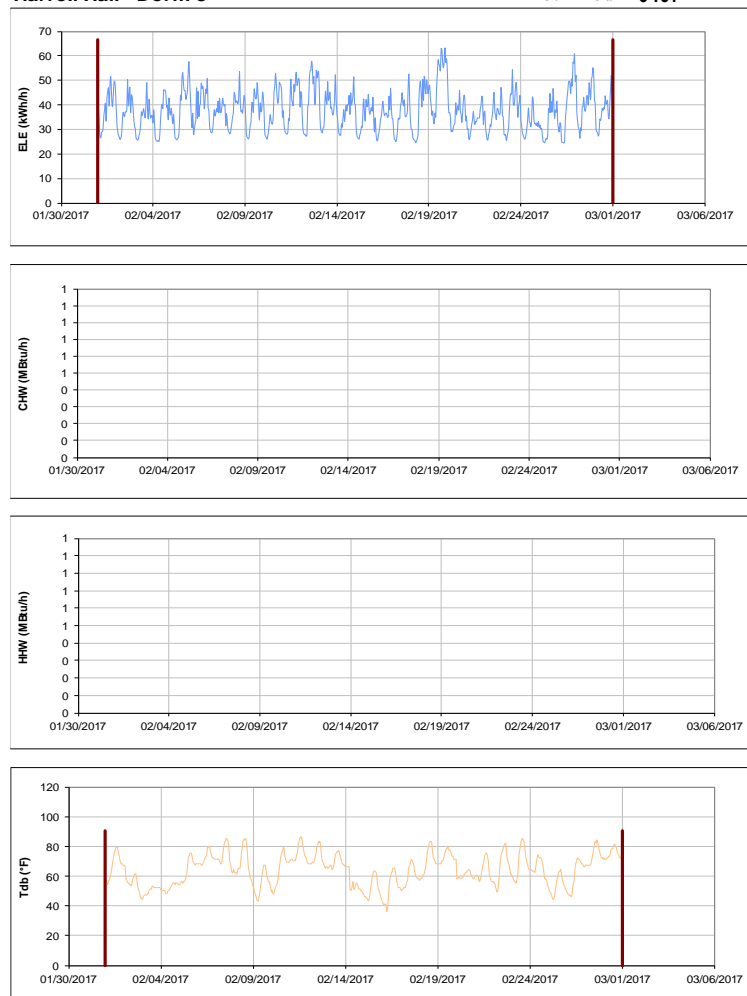


Figure III-35 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrell Hall - Dorm 8 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Moses Residence Hall

TAMU / BLDG #: 0412

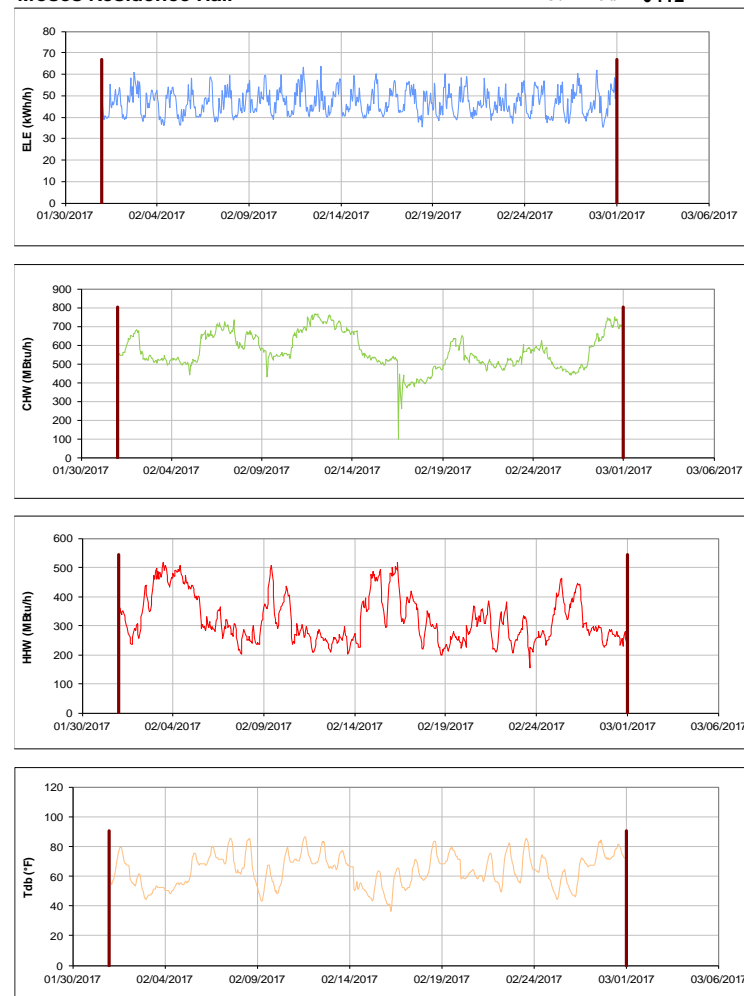


Figure III-36 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Moses Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Davis-Gary Residence Hall

TAMU / BLDG #: 0415

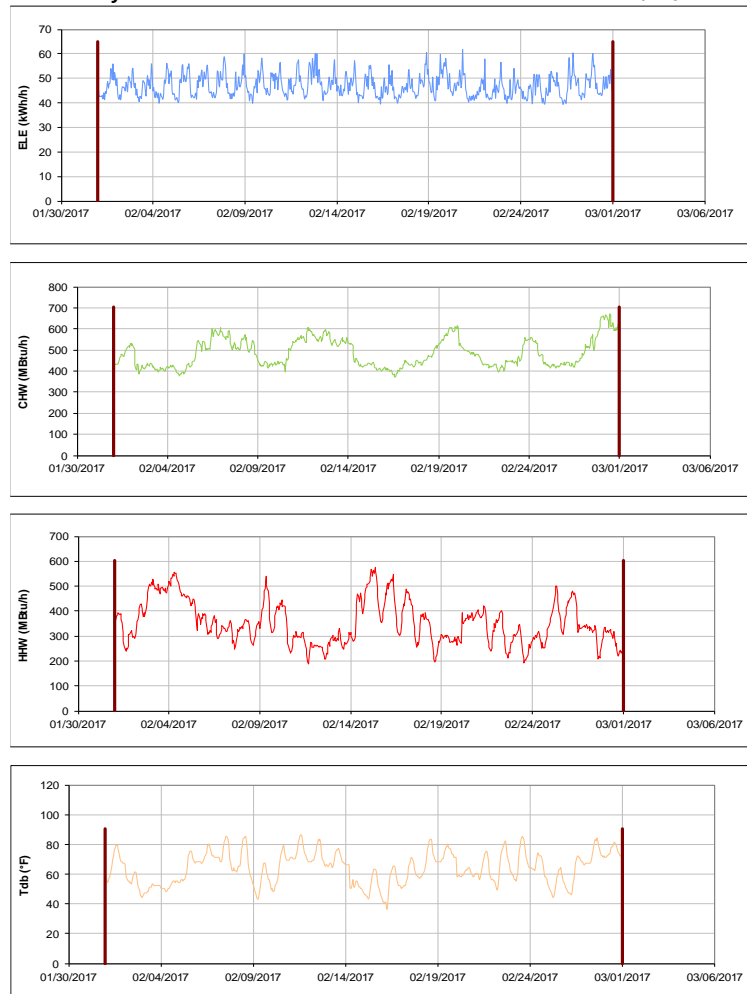


Figure III-37 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Davis-Gary Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Legett Residence Hall

TAMU / BLDG #: 0419

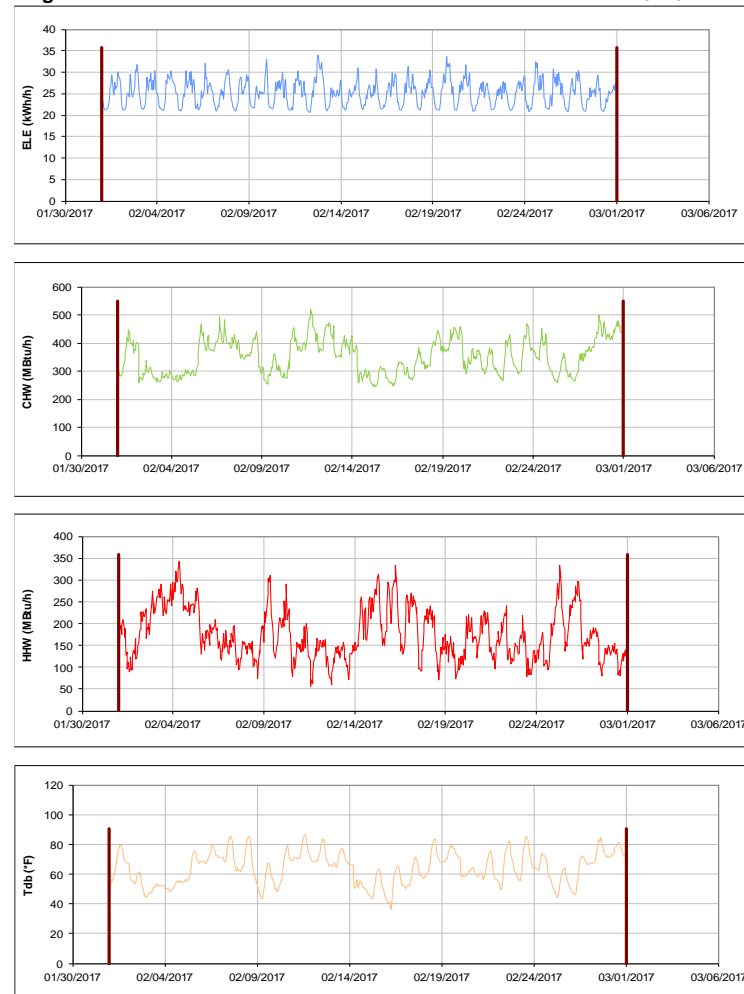


Figure III-38 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Legett Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

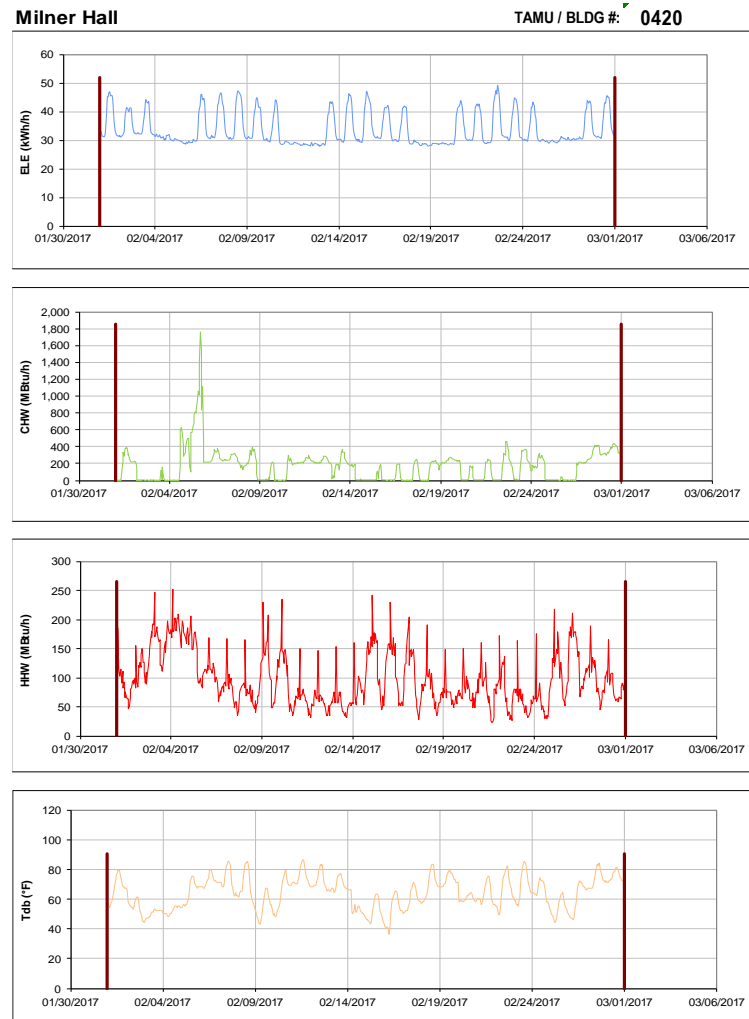


Figure III-39 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Milner Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

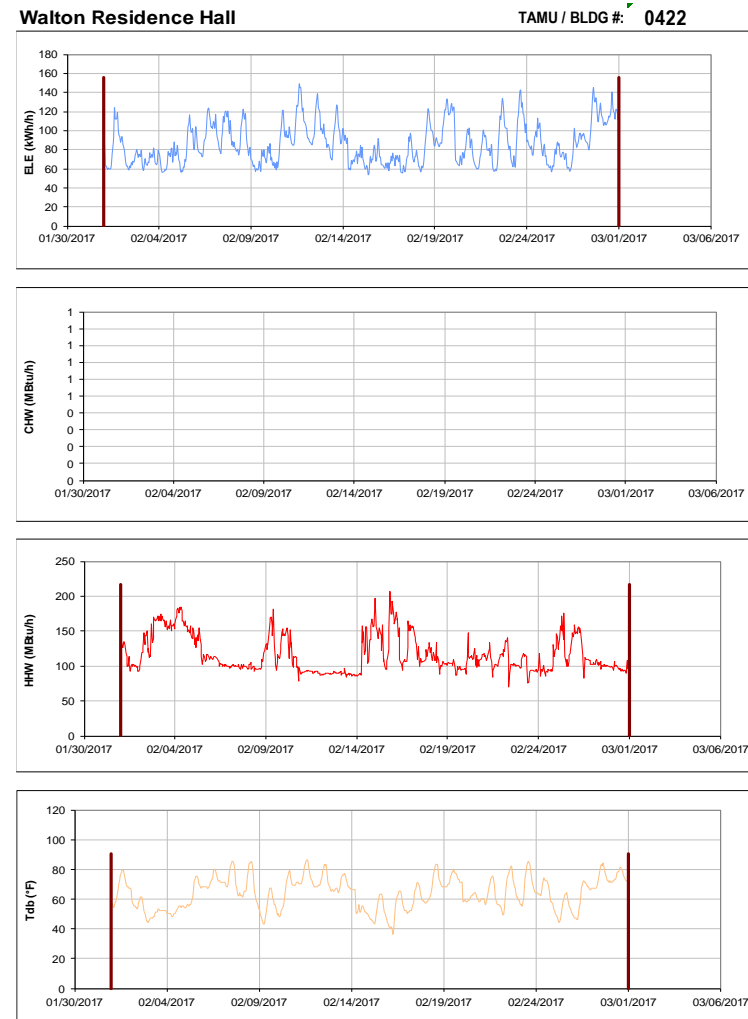


Figure III-40 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Walton Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

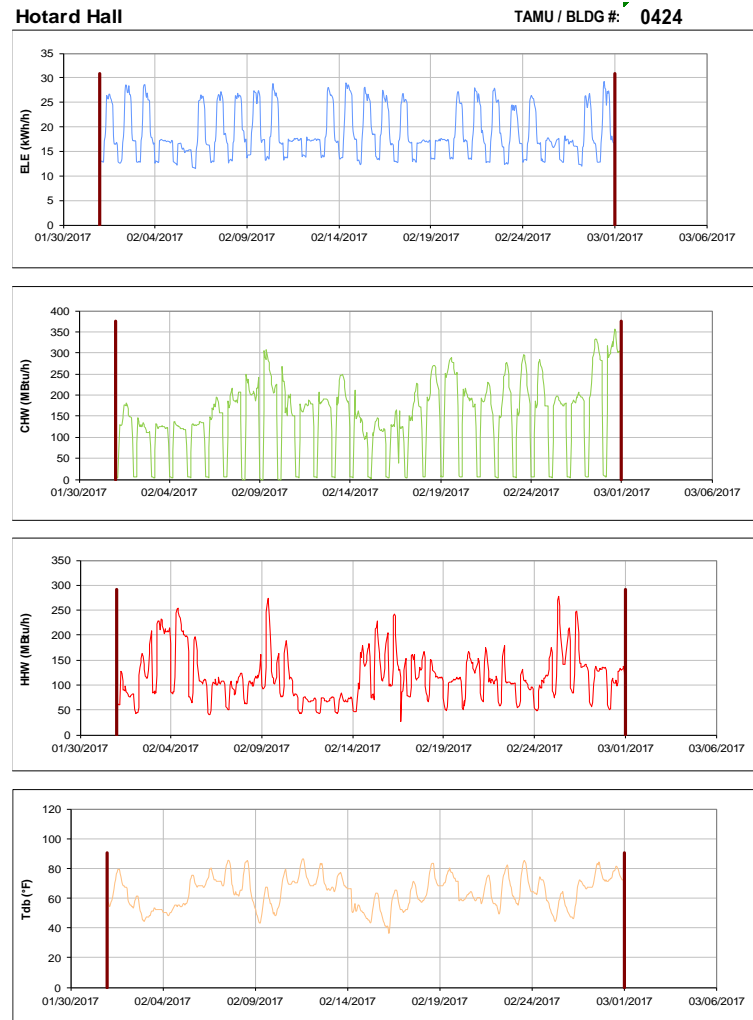


Figure III-41 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hotard Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

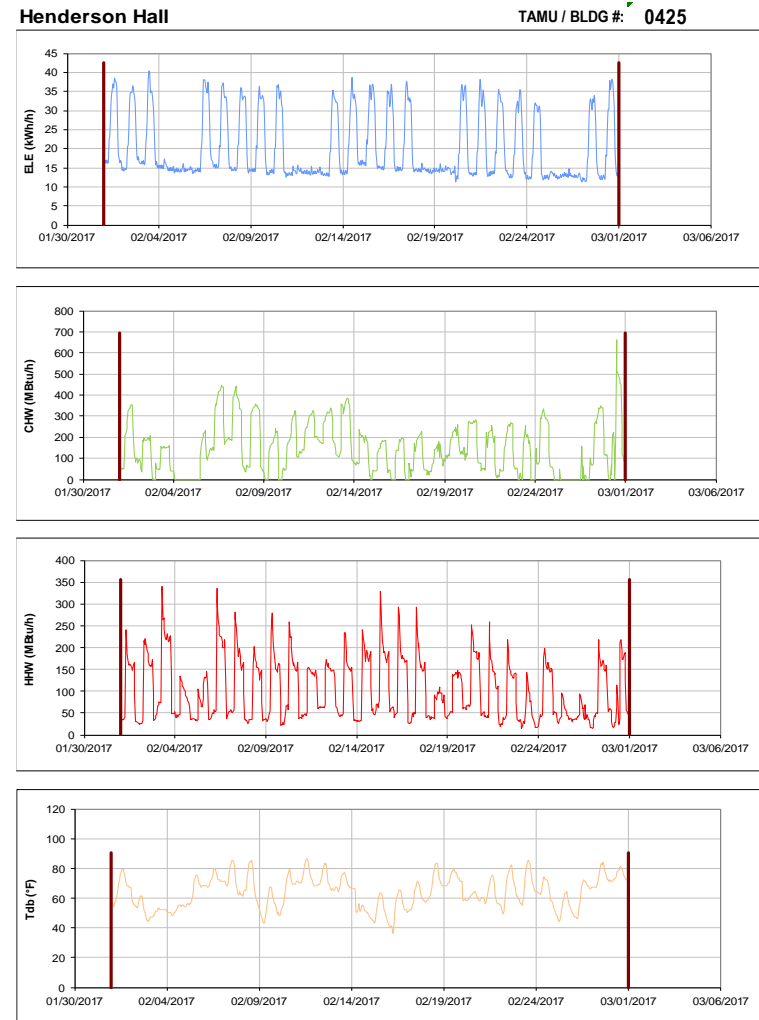


Figure III-42 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Henderson Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

FBK Complex

TAMU / BLDG #: 0426

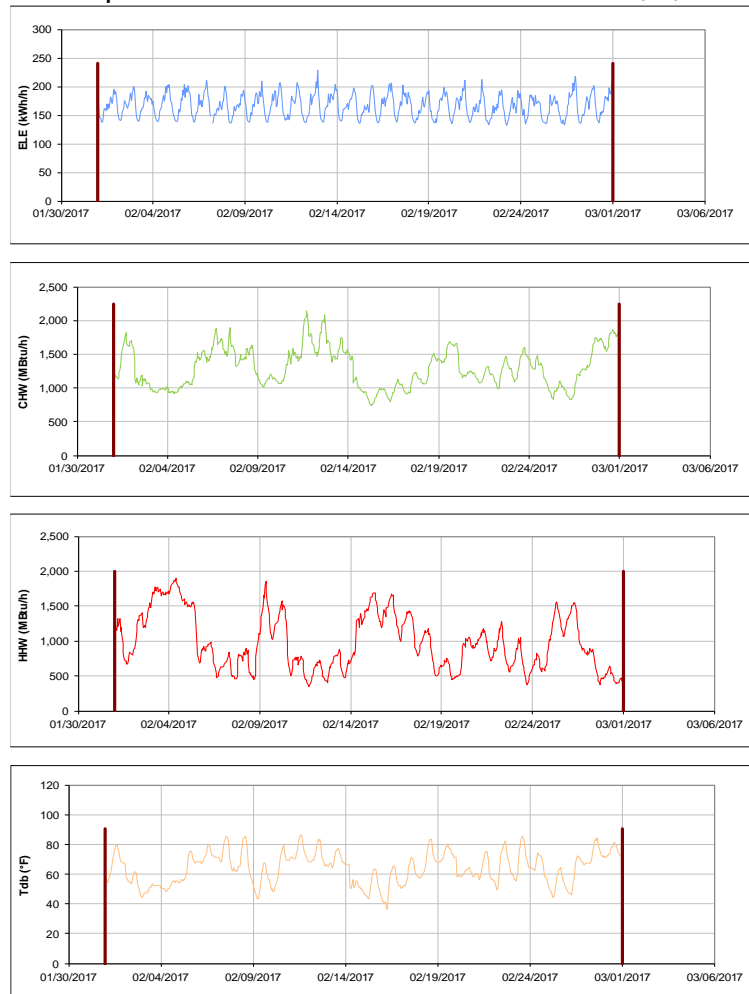


Figure III-43 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for FBK Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Schumacher Residence Hall

TAMU / BLDG #: 0430

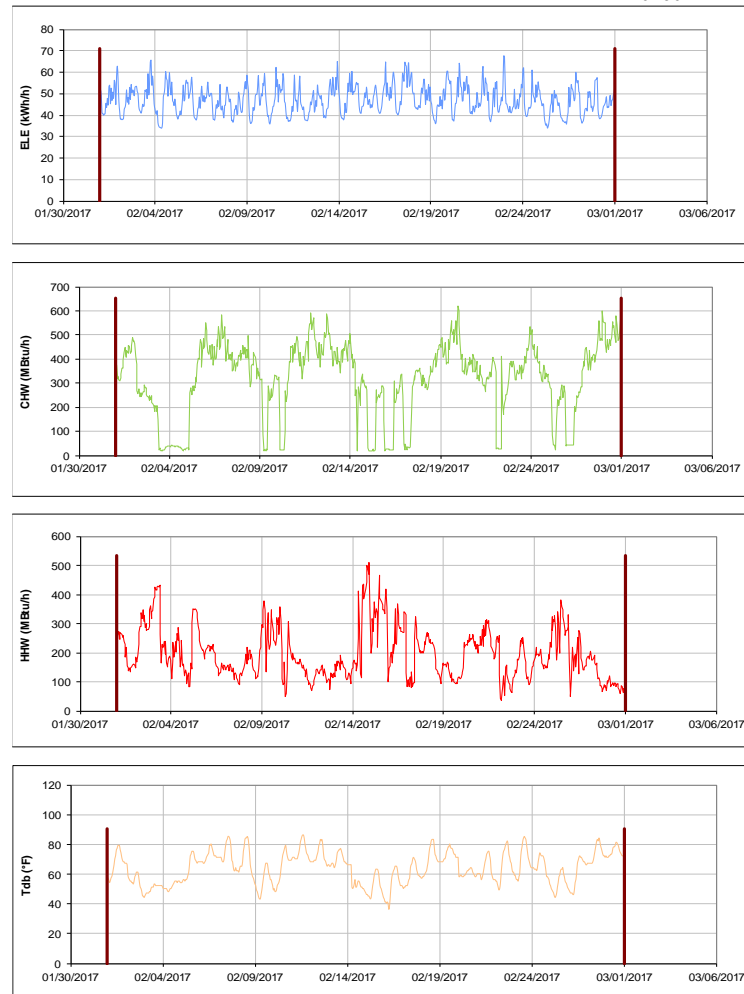


Figure III-44 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Schumacher Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Architecture Building C

TAMU / BLDG #: 0432

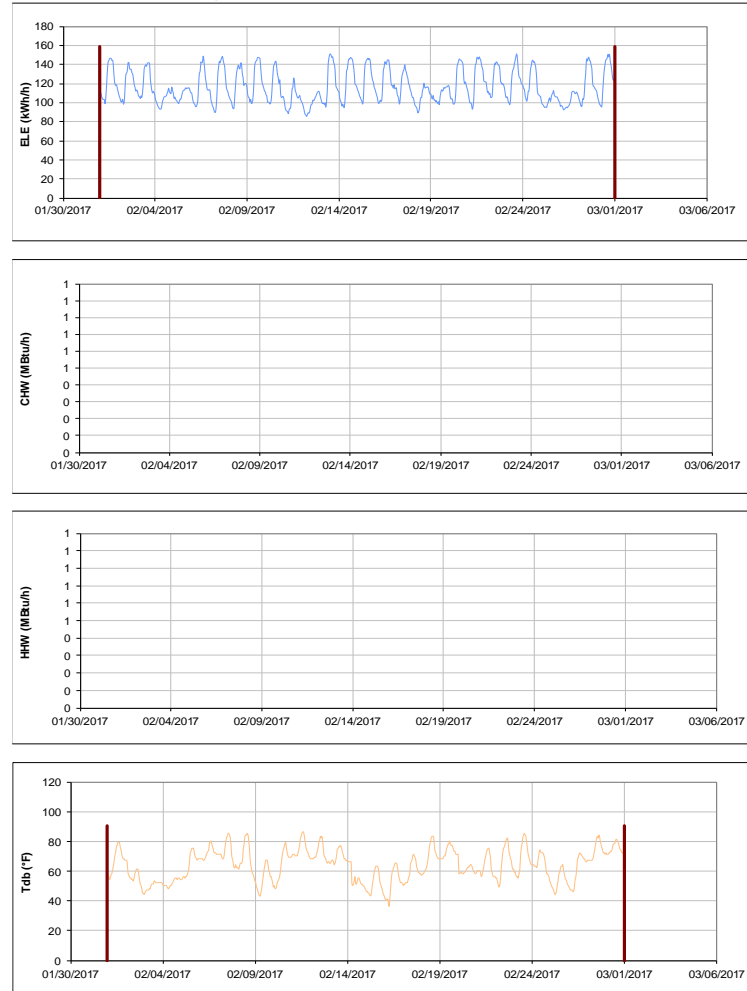


Figure III-45 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building C during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Mosher Residence Hall

TAMU / BLDG #: 0433

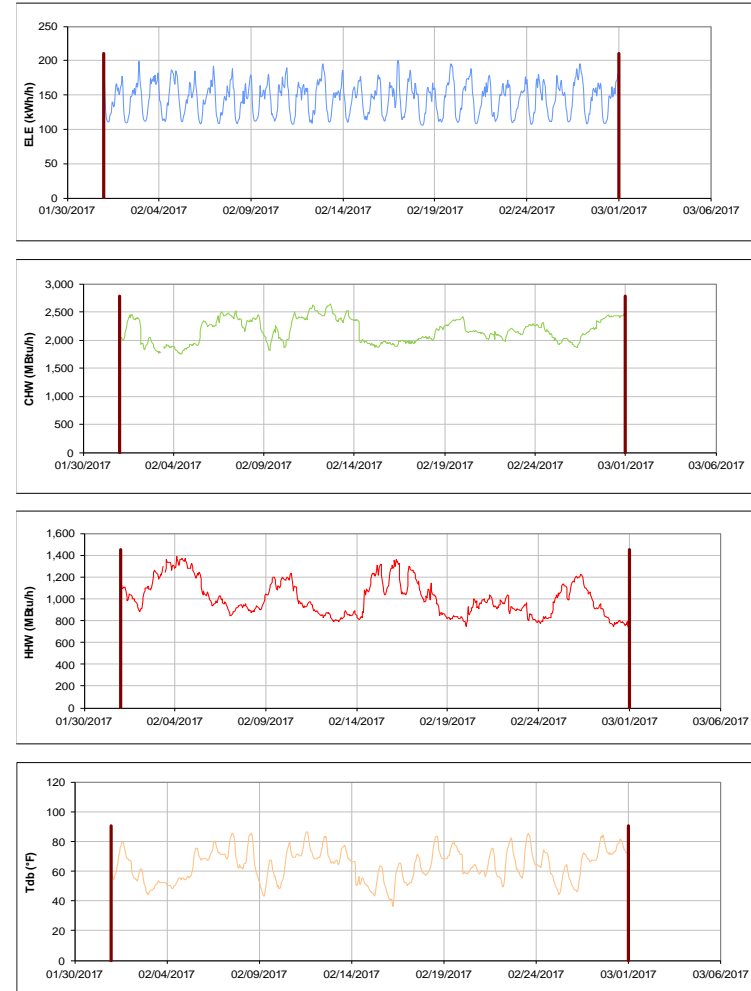


Figure III-46 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mosher Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Mosher Commons Krueger Dunn Aston TAMU / BLDG #: 0-0441-0442-0447

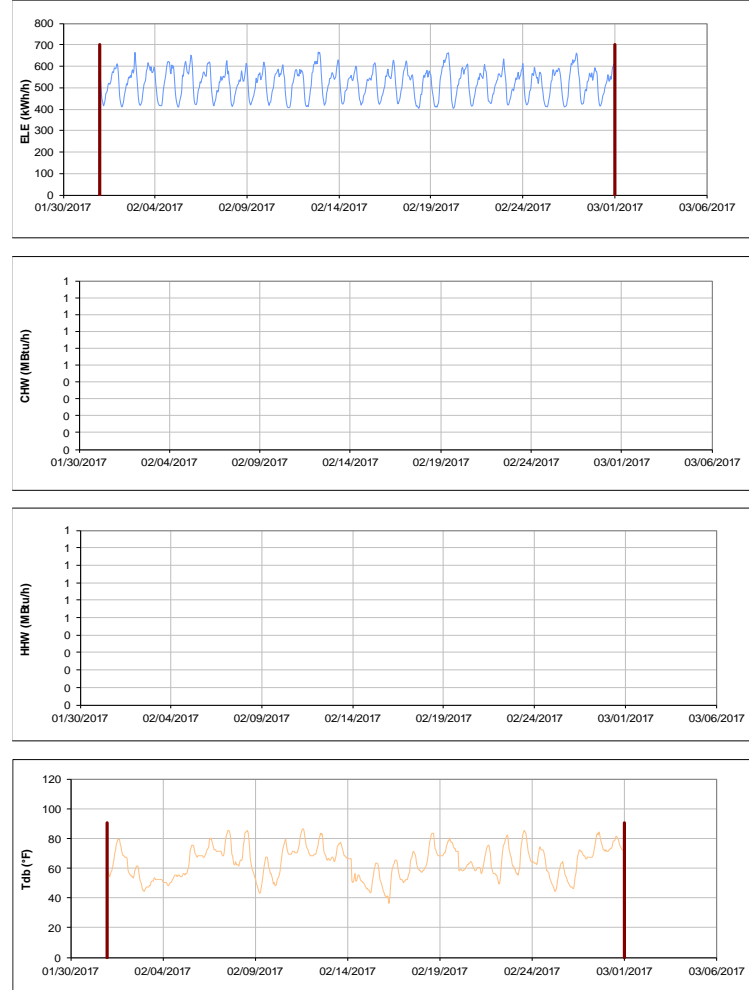


Figure III-47 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mosher Commons Krueger Dunn Aston during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Luedecke Building (Cyclotron) TAMU / BLDG #: 0434

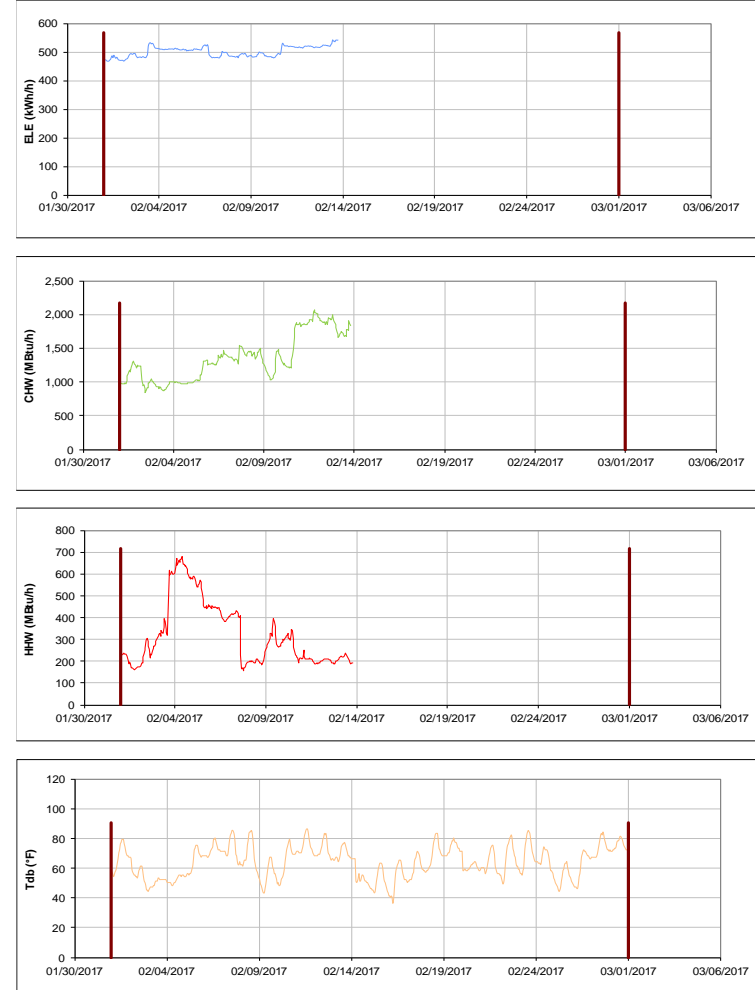


Figure III-48 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Luedecke Building (Cyclotron) during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX



Figure III-49 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrington Education Center Office Tower during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

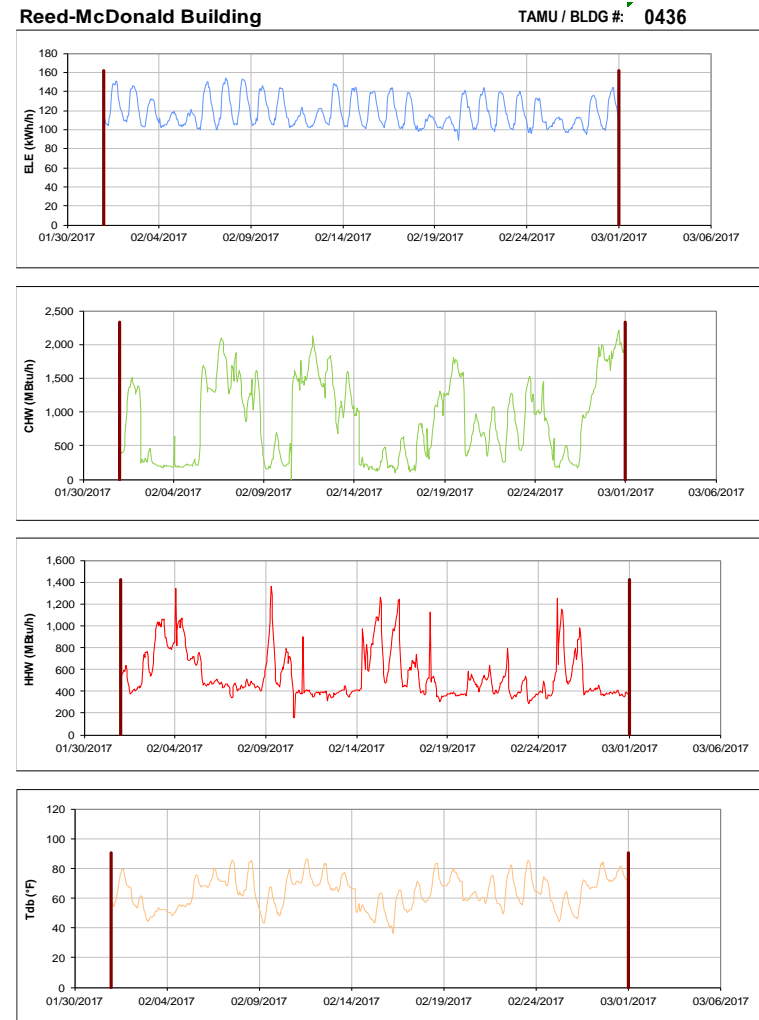


Figure III-50 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed-McDonald Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Reed-McDonald and Engineering Innovation Center TAMU / BLDG #: 436-0499

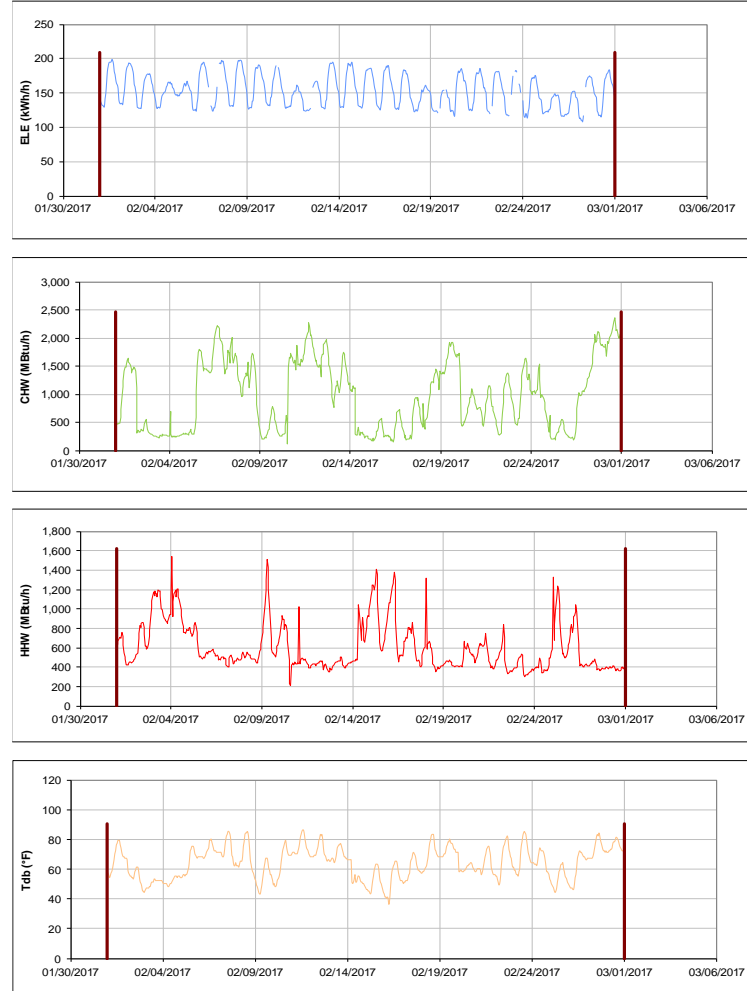


Figure III-51 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed-McDonald and Engineering Innovation Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Harrington Education Center Classroom Building TAMU / BLDG #: 0438

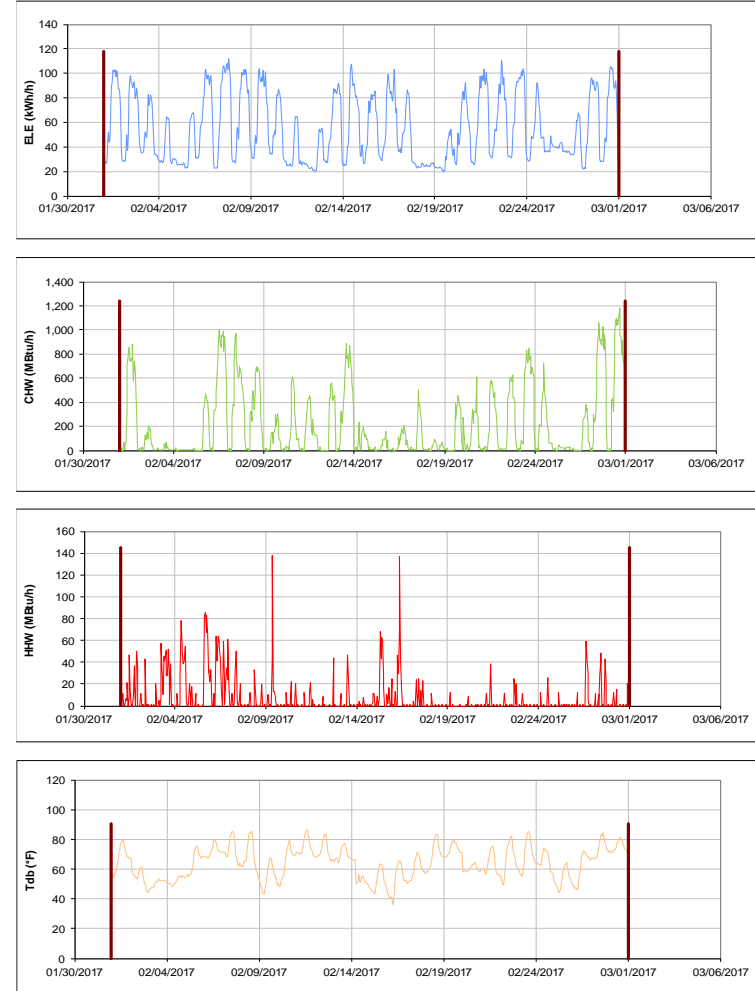


Figure III-52 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrington Education Center Classroom Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Commons Hall

TAMU / BLDG #: 0440

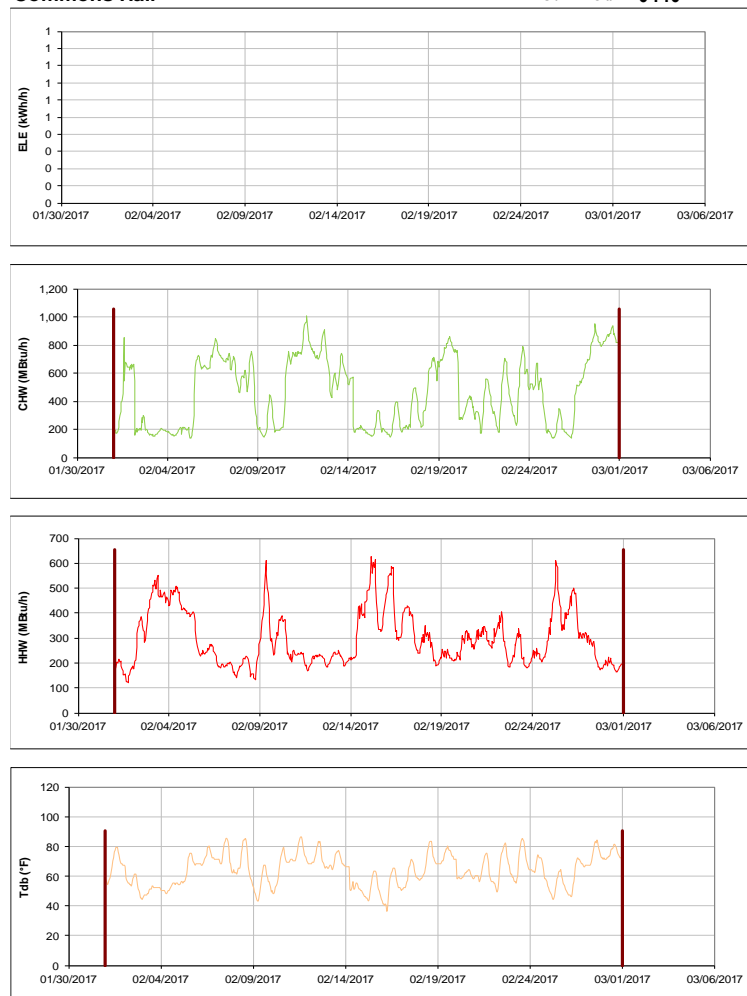


Figure III-53 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Commons Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Krueger Residence Hall

TAMU / BLDG #: 0441

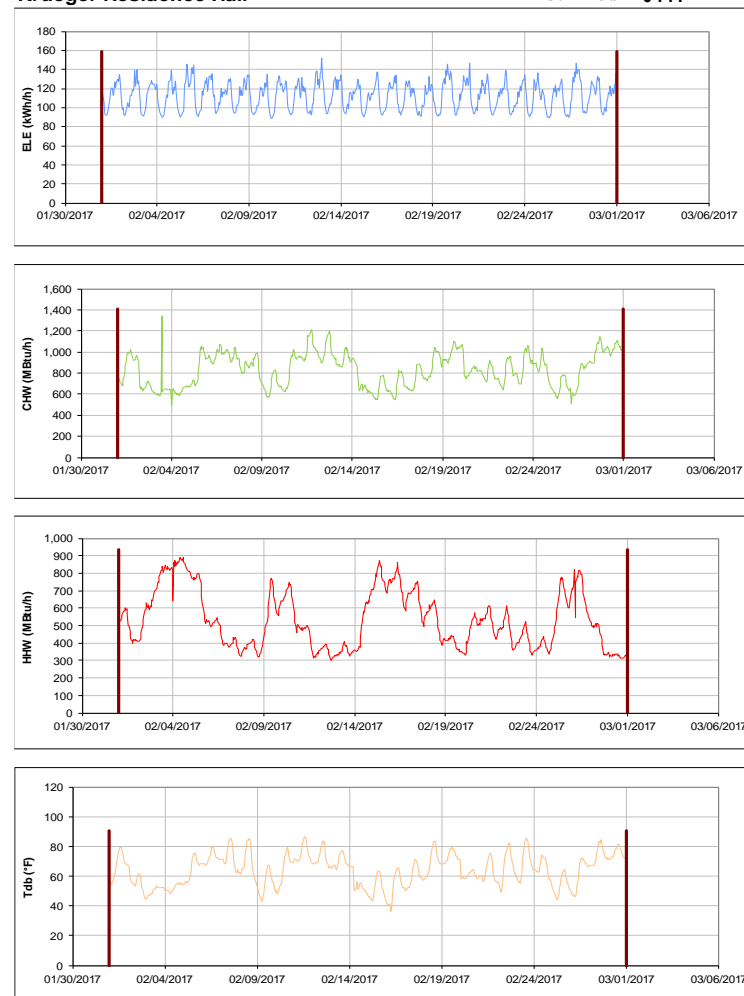


Figure III-54 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Krueger Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Dunn Residence Hall

TAMU / BLDG #: 0442

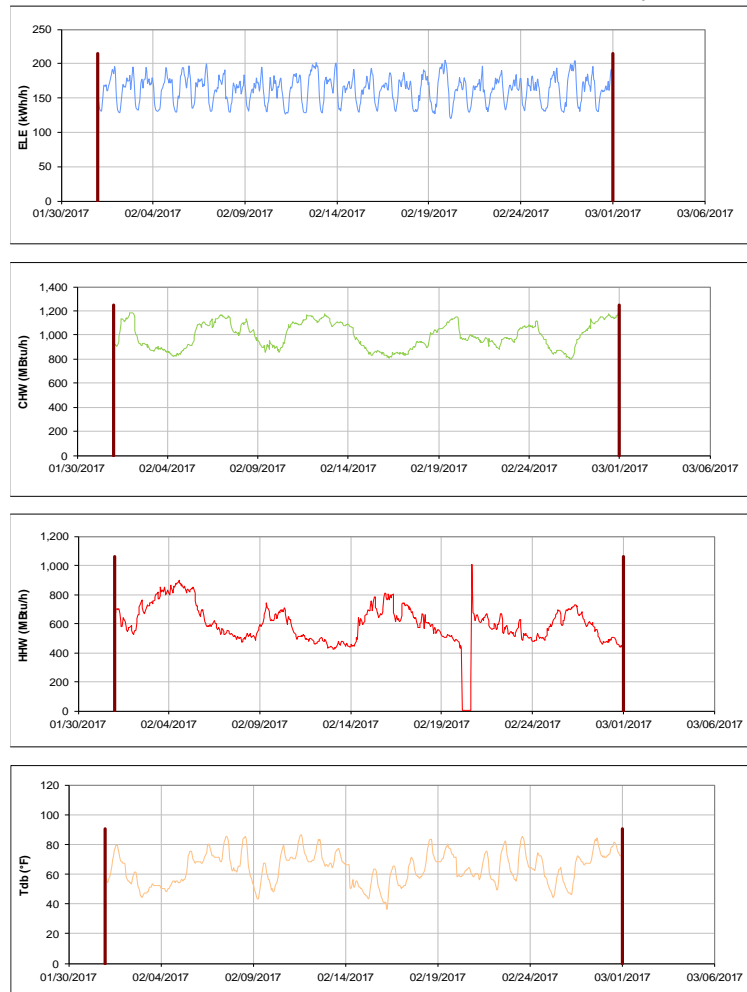


Figure III-55 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Dunn Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Oceanography & Meteorology Building

TAMU / BLDG #: 0443



Figure III-56 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Oceanography & Meteorology Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX



Figure III-57 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Peterson Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

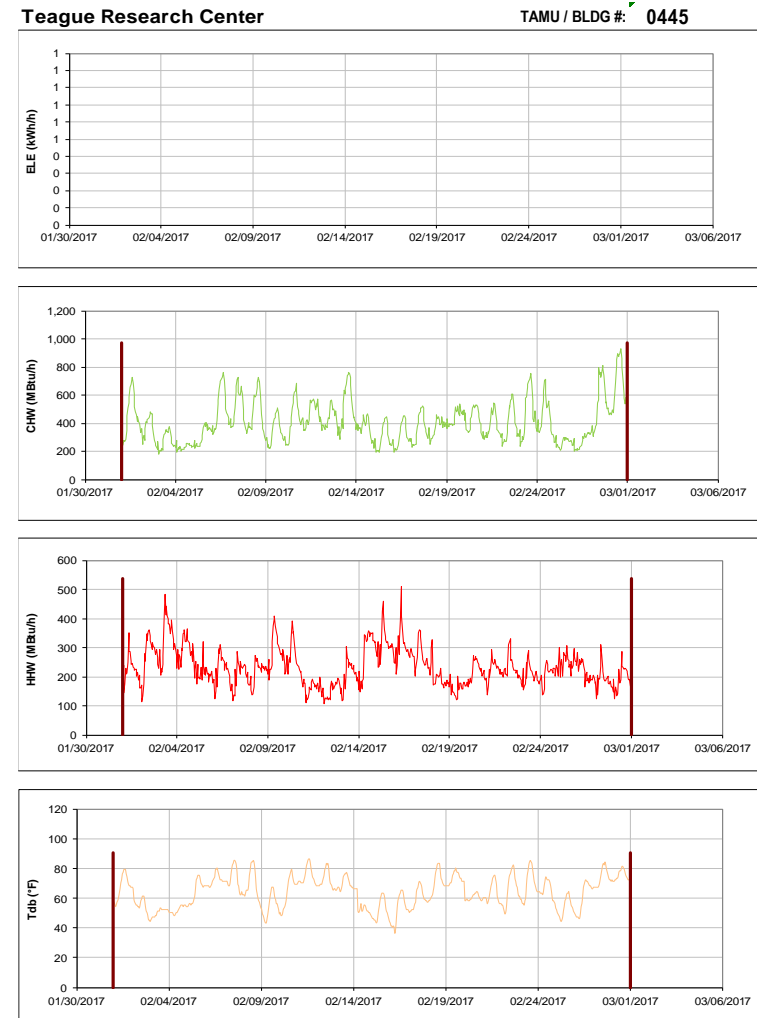


Figure III-58 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Teague Research Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

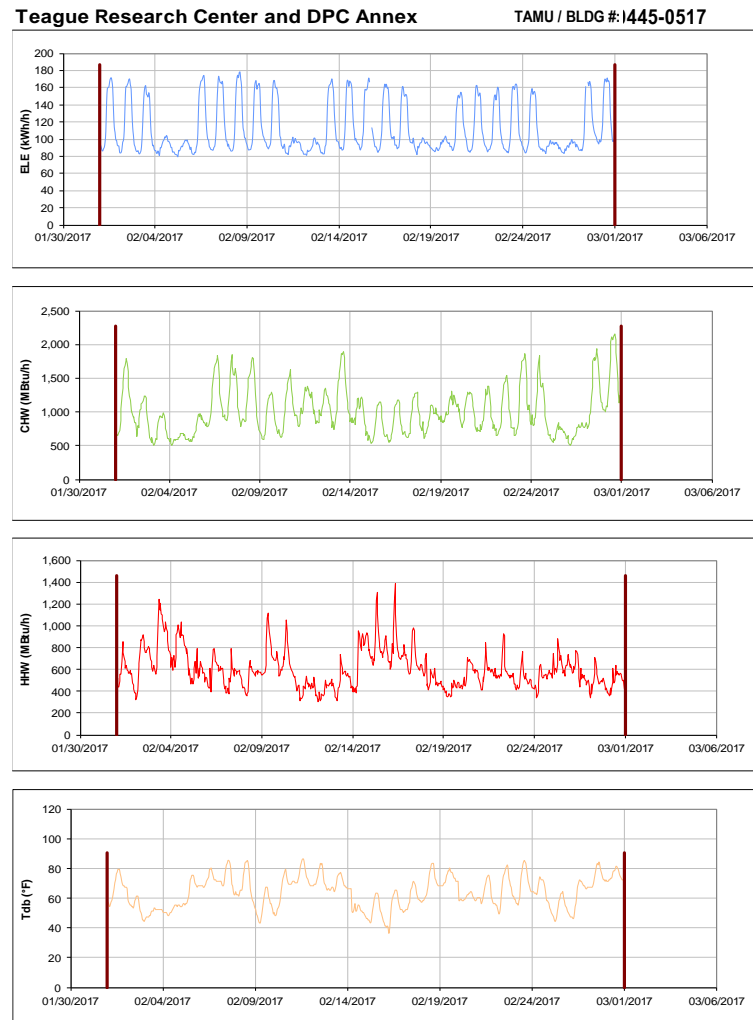


Figure III-59 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Teague Research Center and DPC Annex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

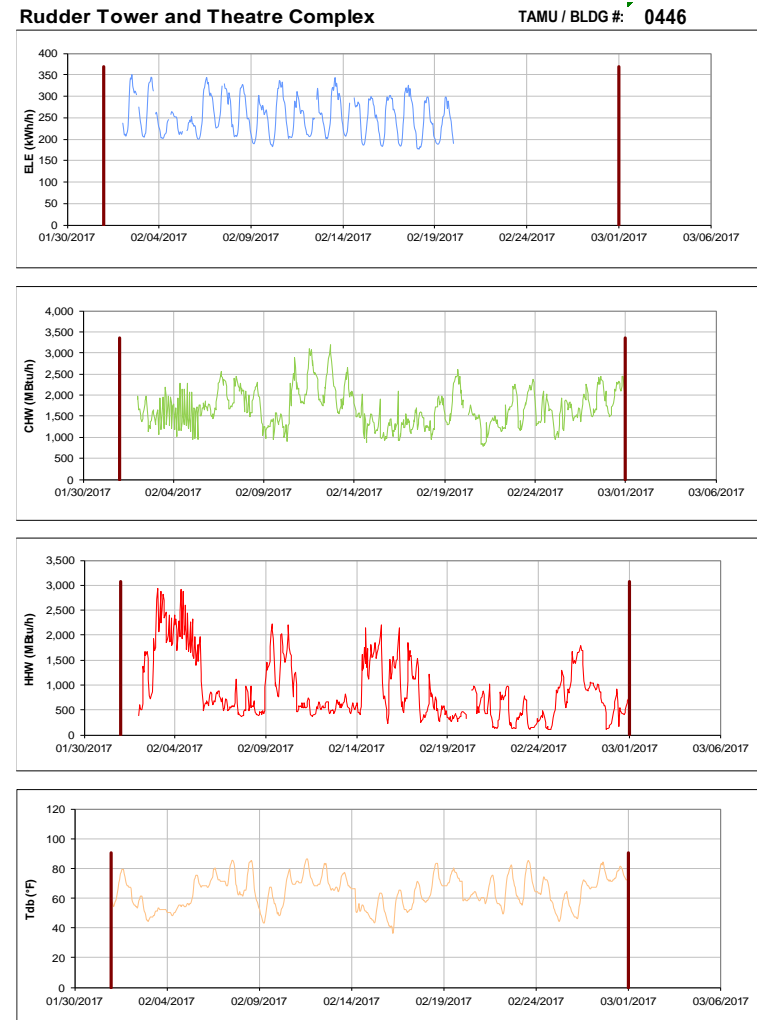


Figure III-60 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Tower and Theatre Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Rudder Theatre Complex

TAMU / BLDG #: 0446-A

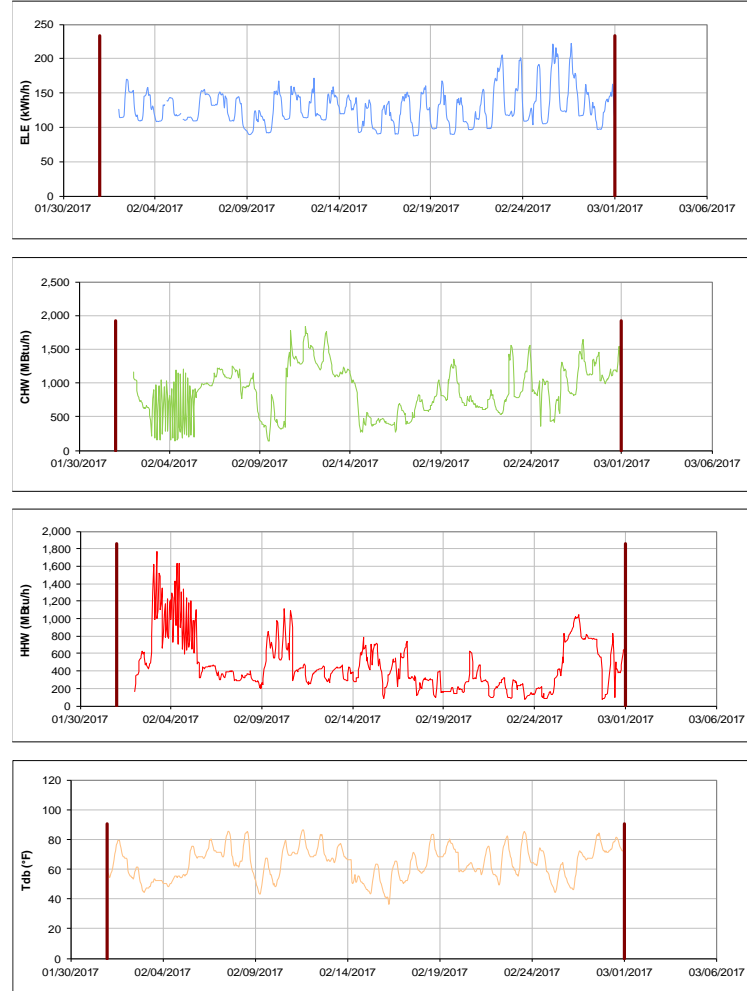


Figure III-61 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Theatre Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Rudder Tower

TAMU / BLDG #: 0446-B

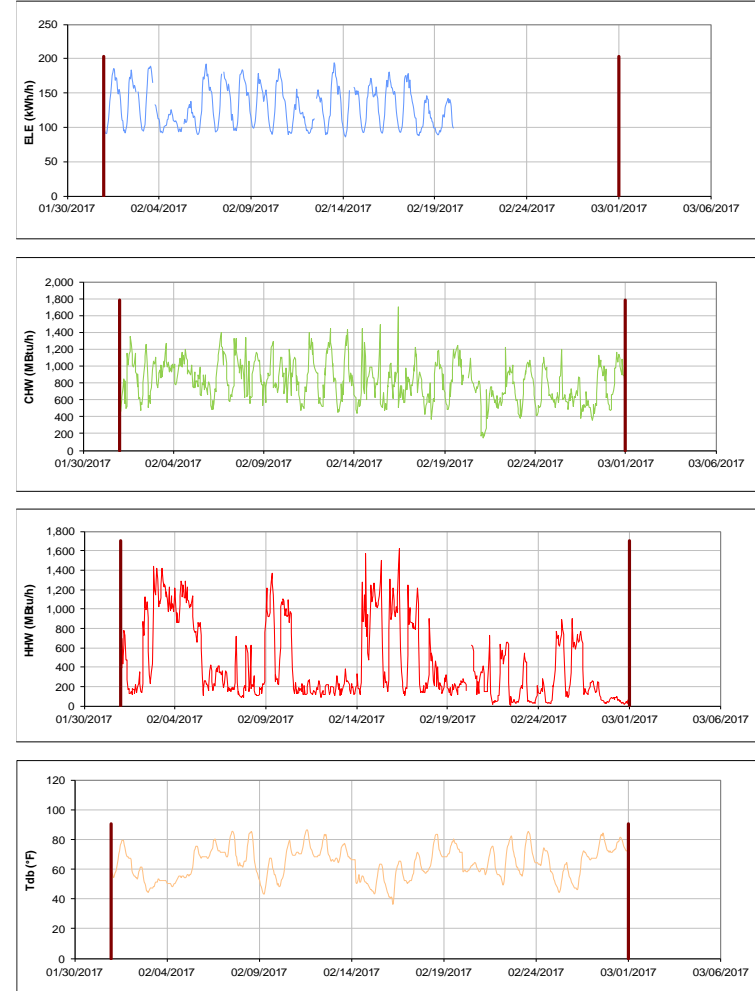


Figure III-62 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Tower during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Aston Residence Hall

TAMU / BLDG #: 0447

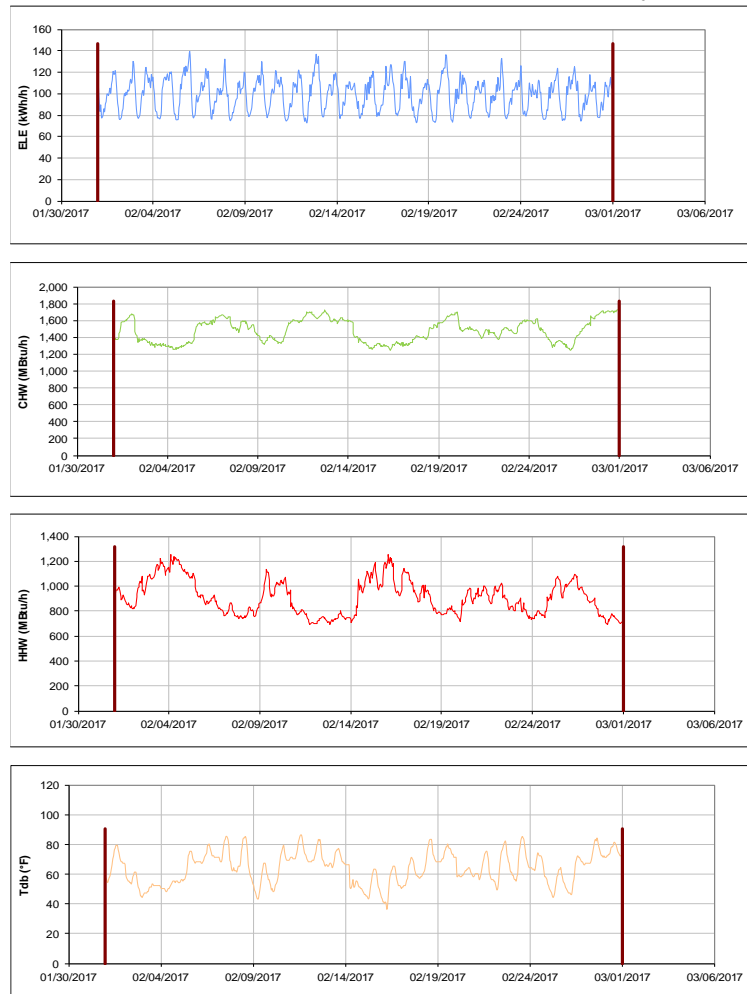


Figure III-63 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Aston Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Adams Band Hall

TAMU / BLDG #: 0448

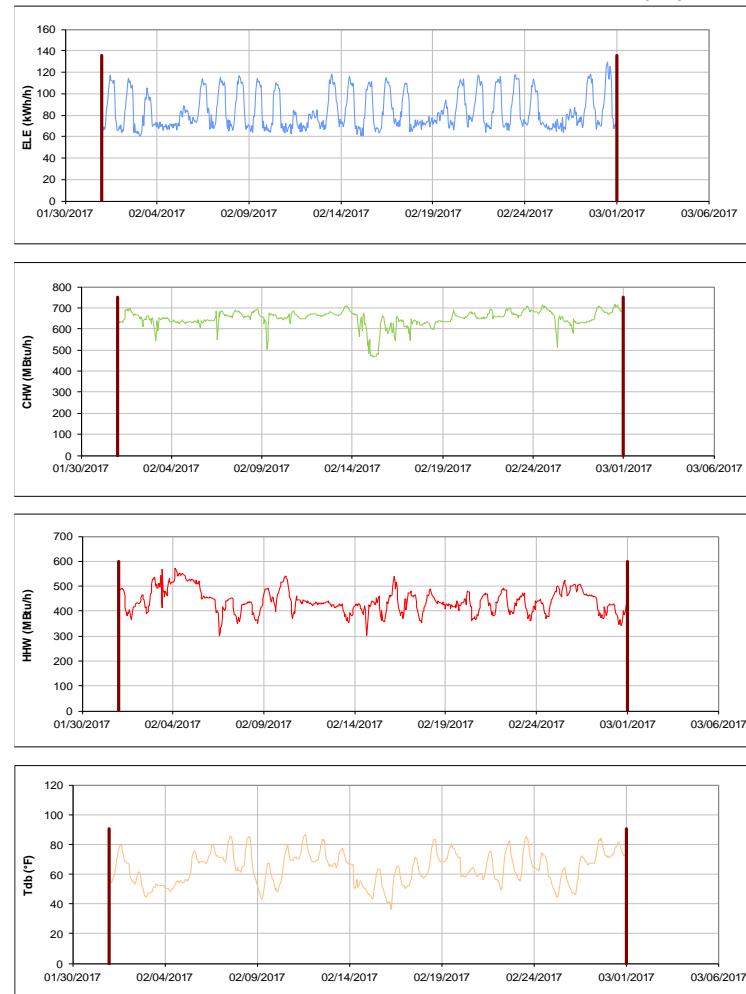


Figure III-64 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Adams Band Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Biological Sciences Building - West

TAMU / BLDG #: 0449



Figure III-65 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Sciences Building - West during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Duncan Dining Hall

TAMU / BLDG #: 0450

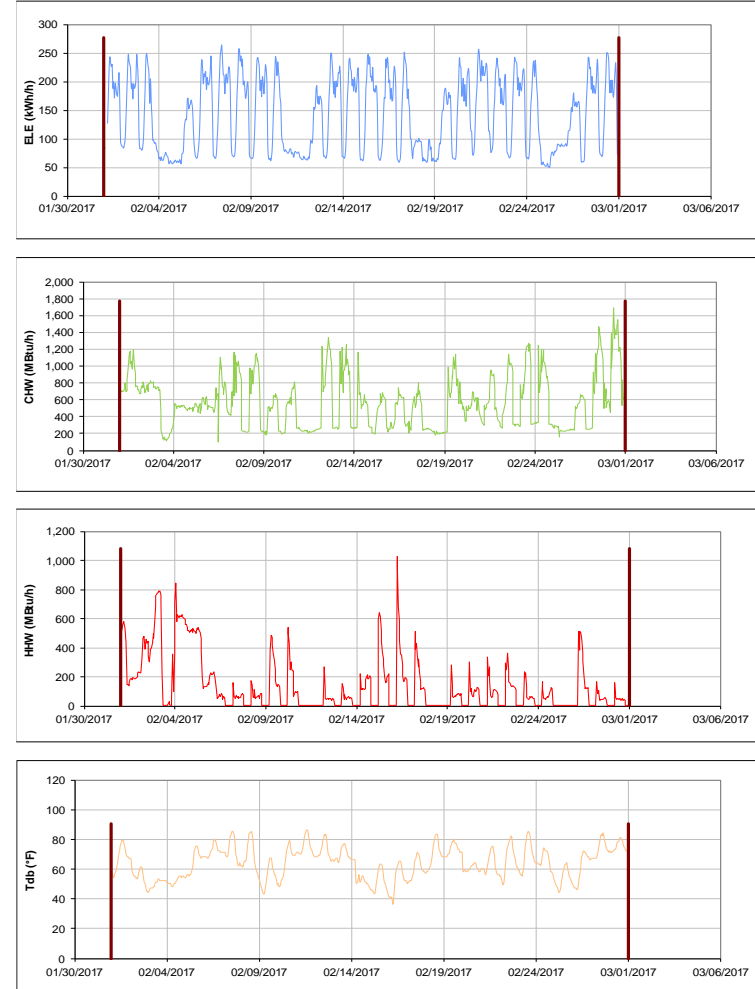


Figure III-66 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Duncan Dining Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

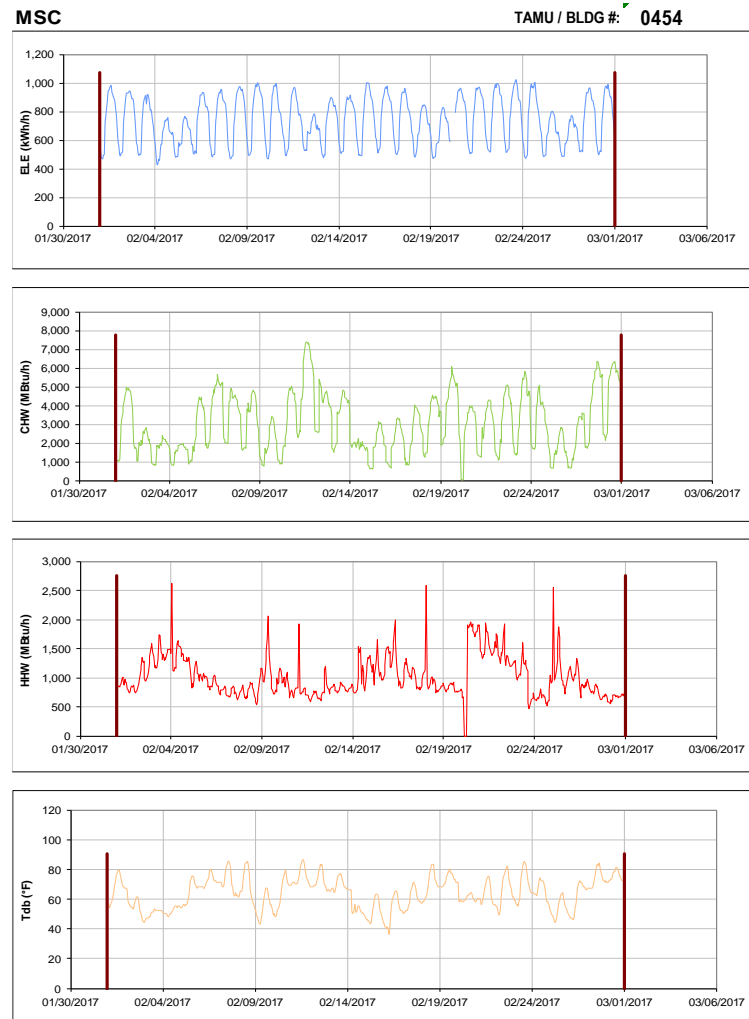


Figure III-67 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for MSC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

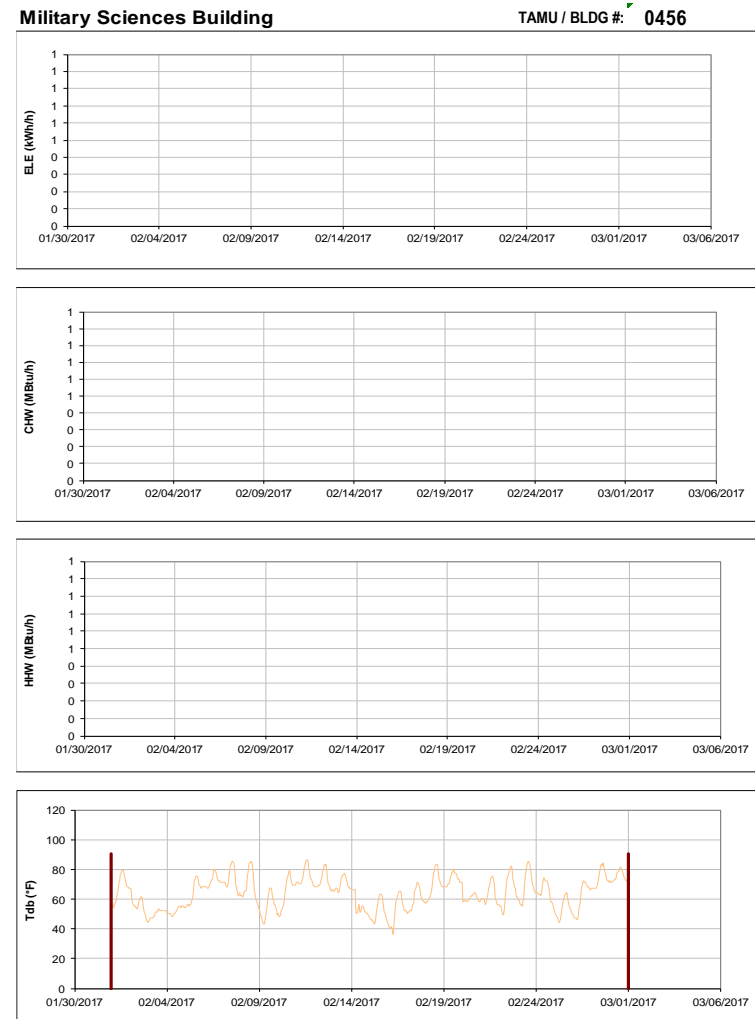


Figure III-68 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Military Sciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

TAES Annex Building

TAMU / BLDG #: 0457

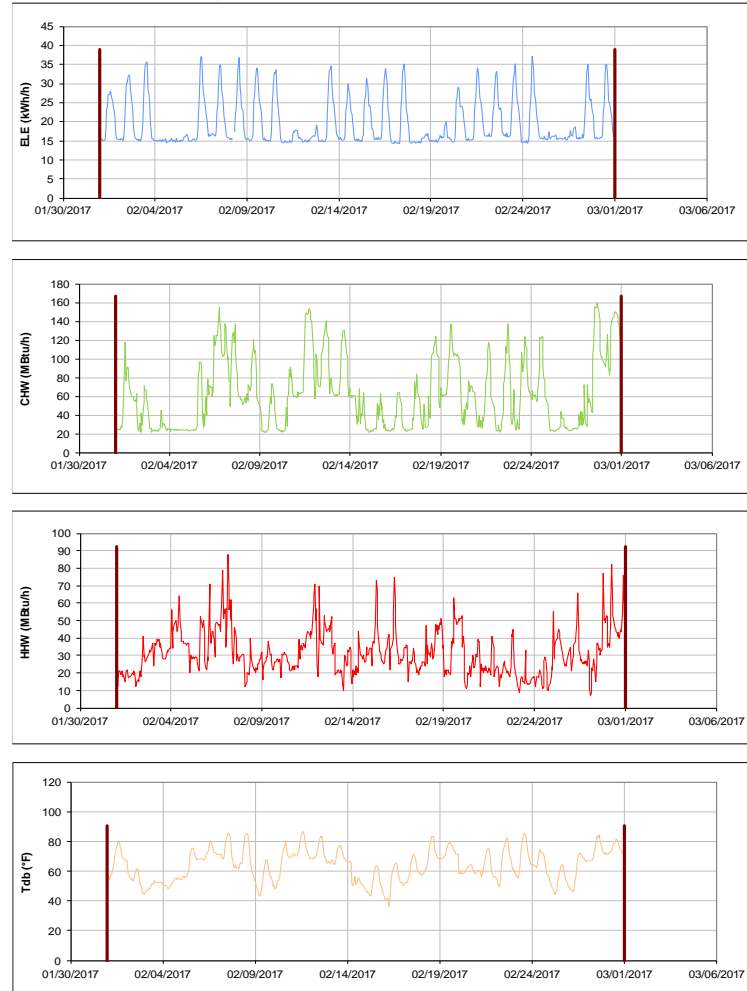


Figure III-69 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TAES Annex Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Coke Building

TAMU / BLDG #: 0461

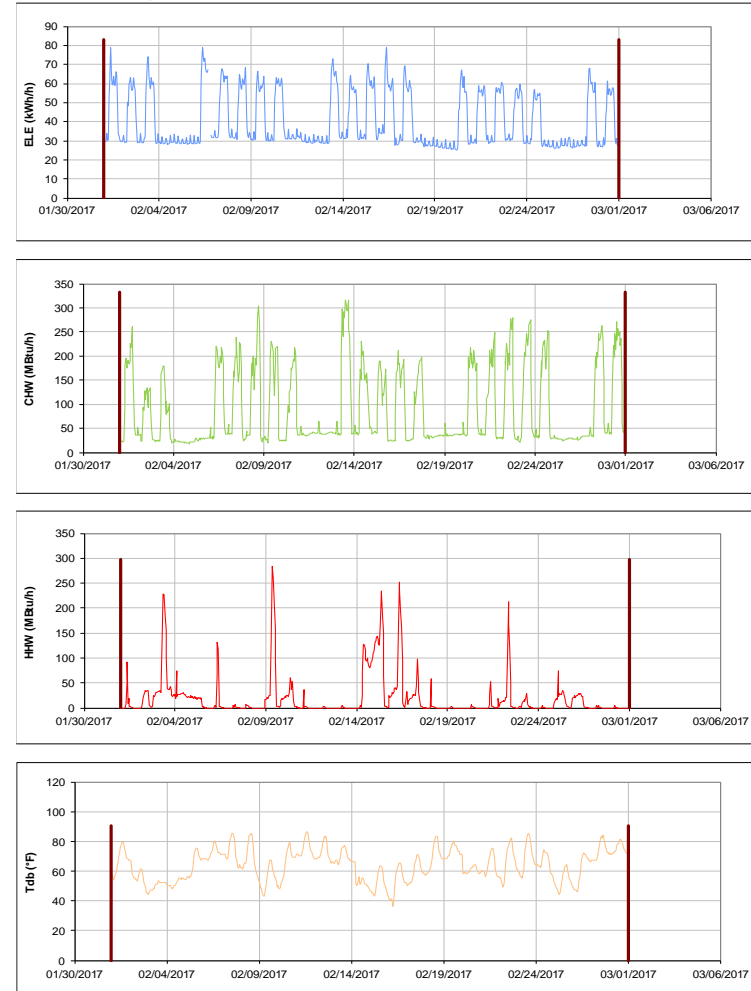


Figure III-70 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Coke Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Academic Building

TAMU / BLDG #: 0462



Figure III-71 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Academic Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Psychology Building

TAMU / BLDG #: 0463

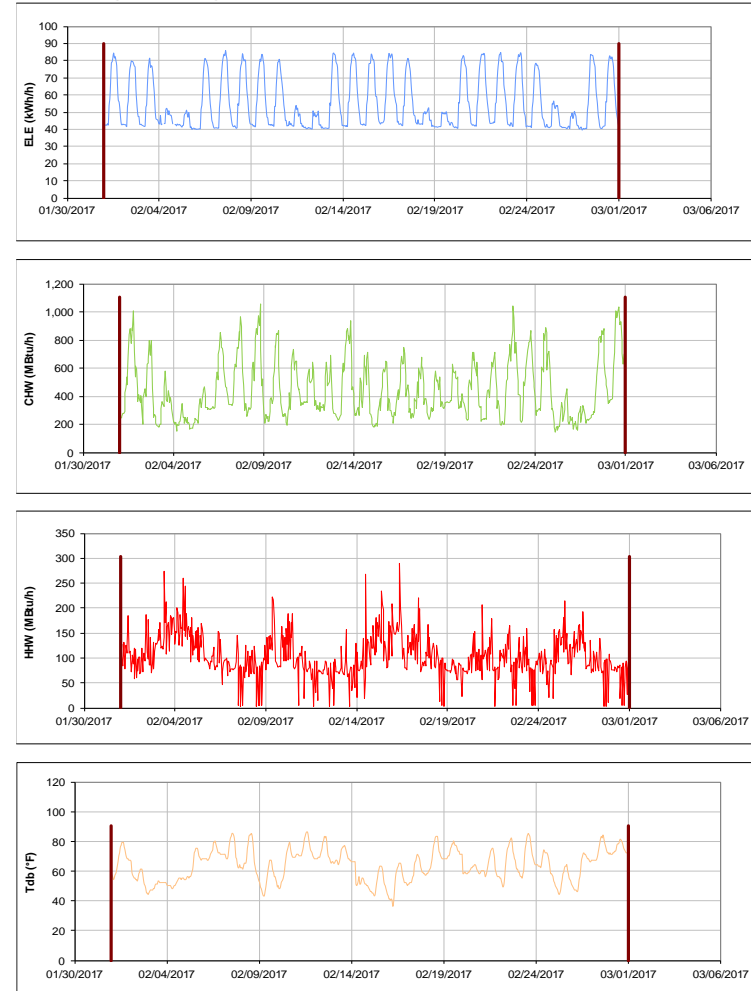


Figure III-72 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Psychology Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

State Chemist Building

TAMU / BLDG #: 0464

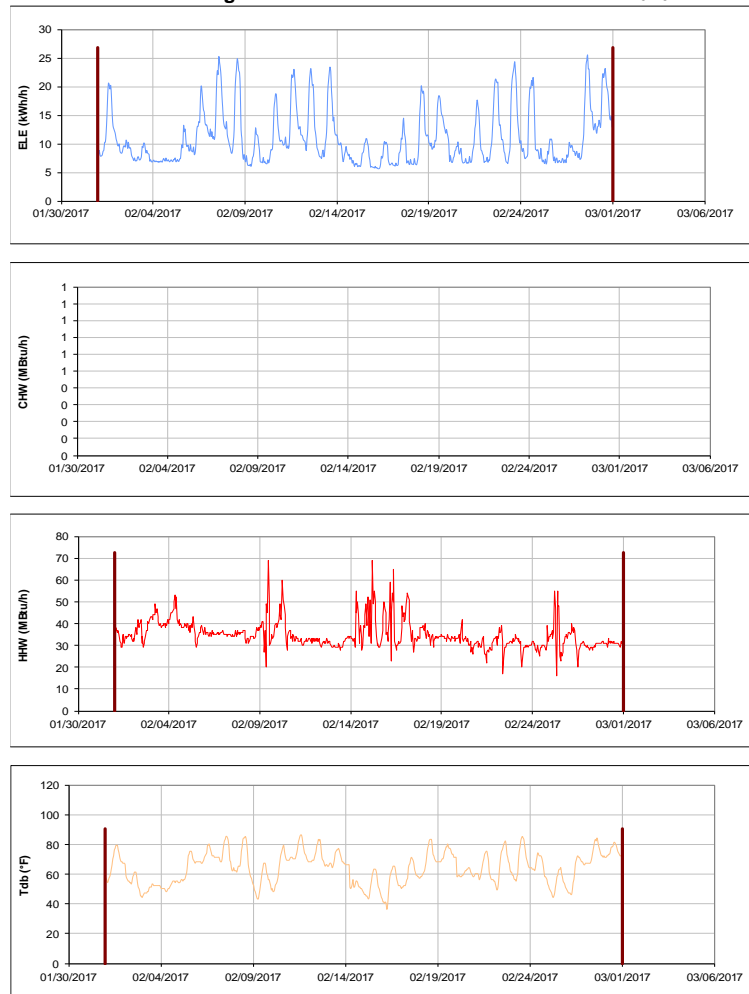


Figure III-73 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for State Chemist Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Butler Hall

TAMU / BLDG #: 0465

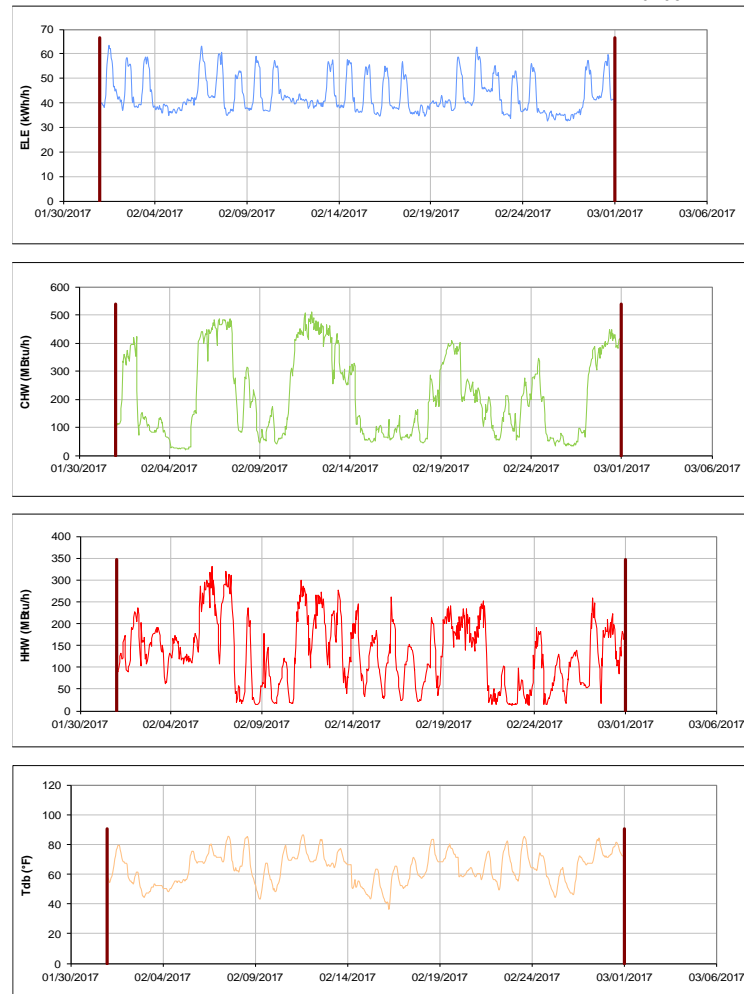


Figure III-74 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Butler Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Biological Sciences Building - East

TAMU / BLDG #: 0467

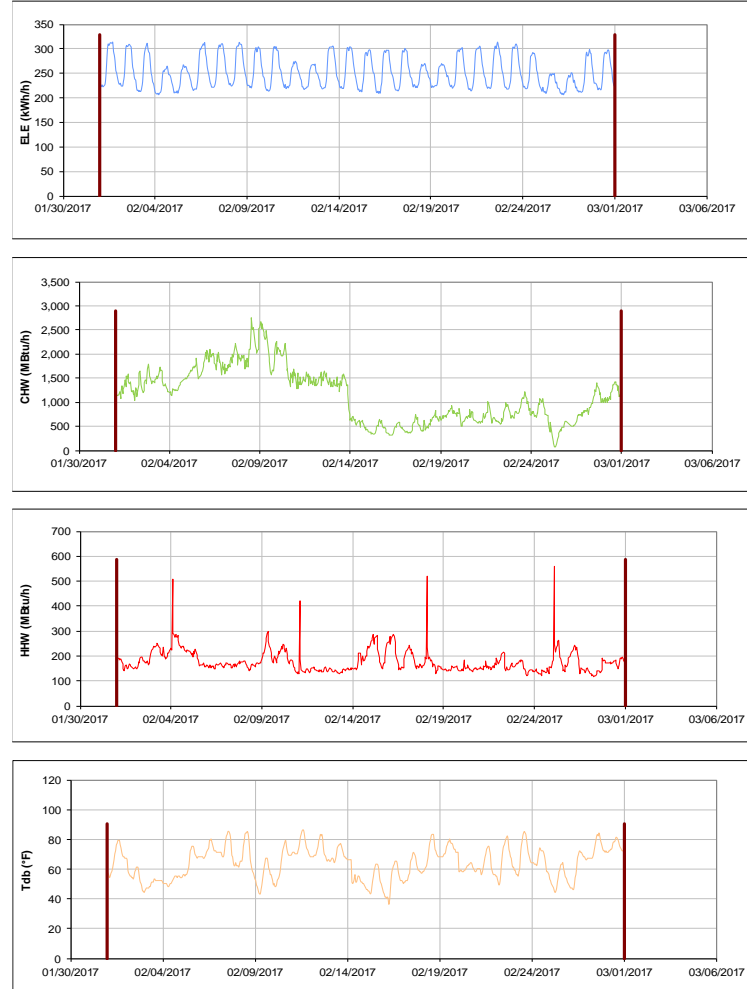


Figure III-75 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Sciences Building - East during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Evans Library

TAMU / BLDG #: 0468

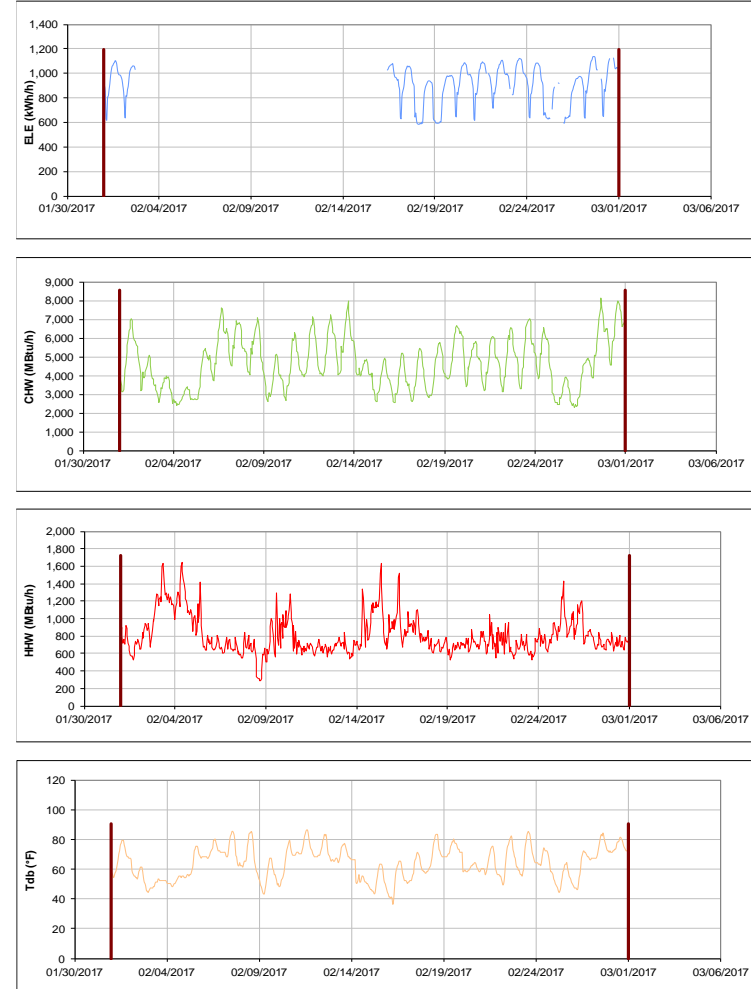


Figure III-76 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Evans Library during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Central Campus Parking Garage

TAMU / BLDG #: 0469

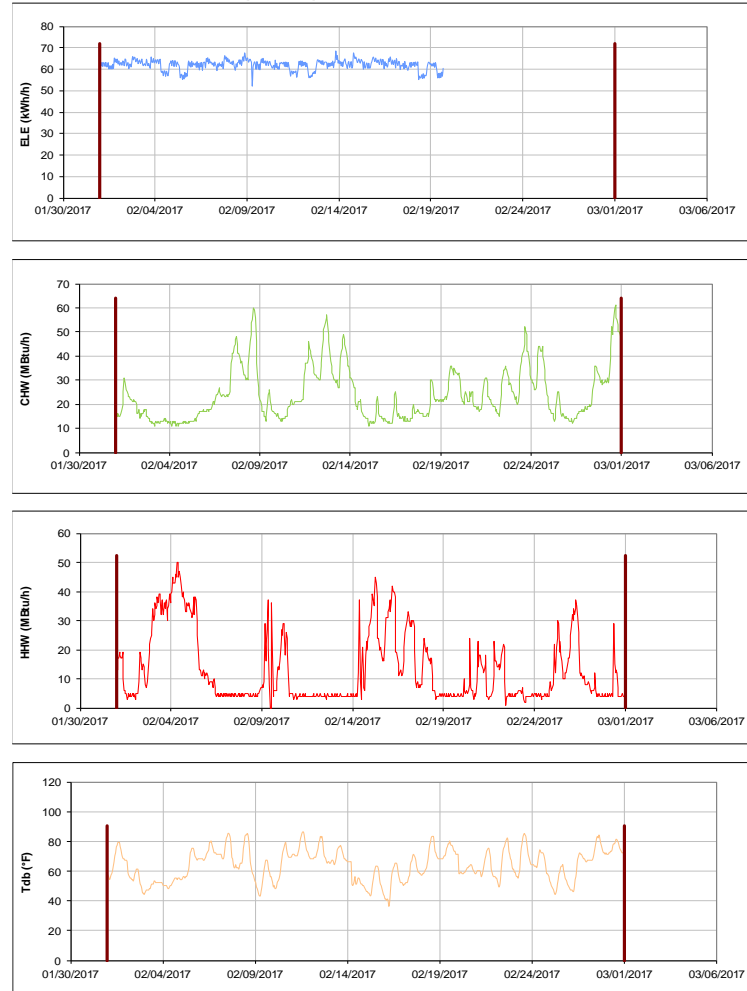


Figure III-77 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Central Campus Parking Garage during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Glasscock History Bldg

TAMU / BLDG #: 0470



Figure III-78 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Glasscock History Bldg during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

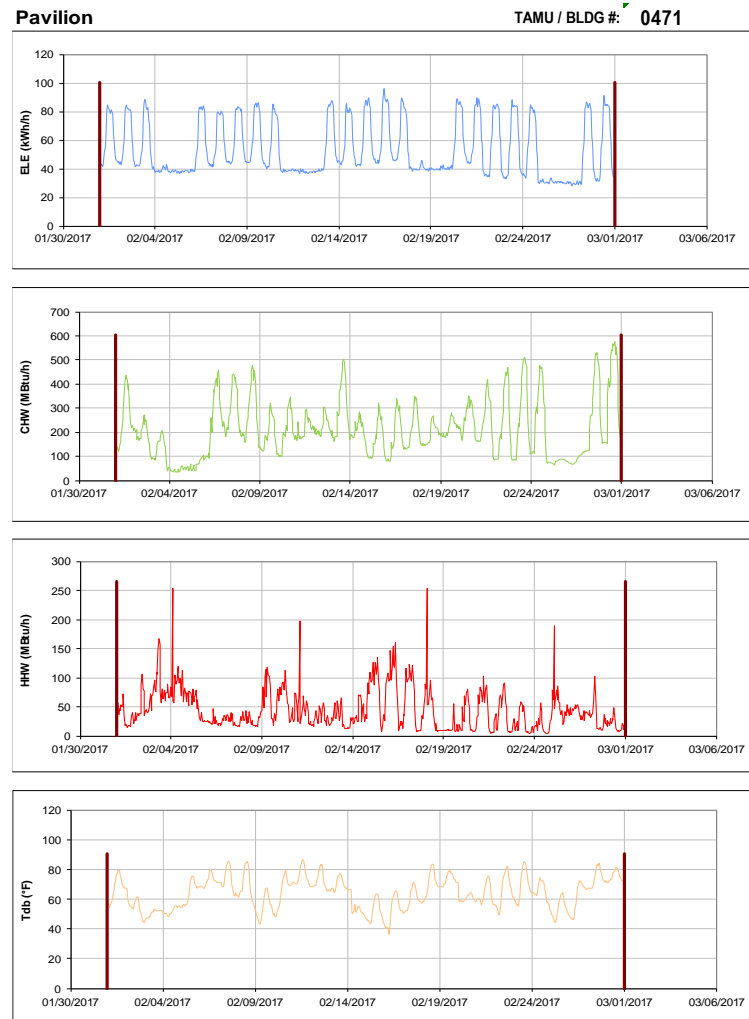


Figure III-79 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Pavilion during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

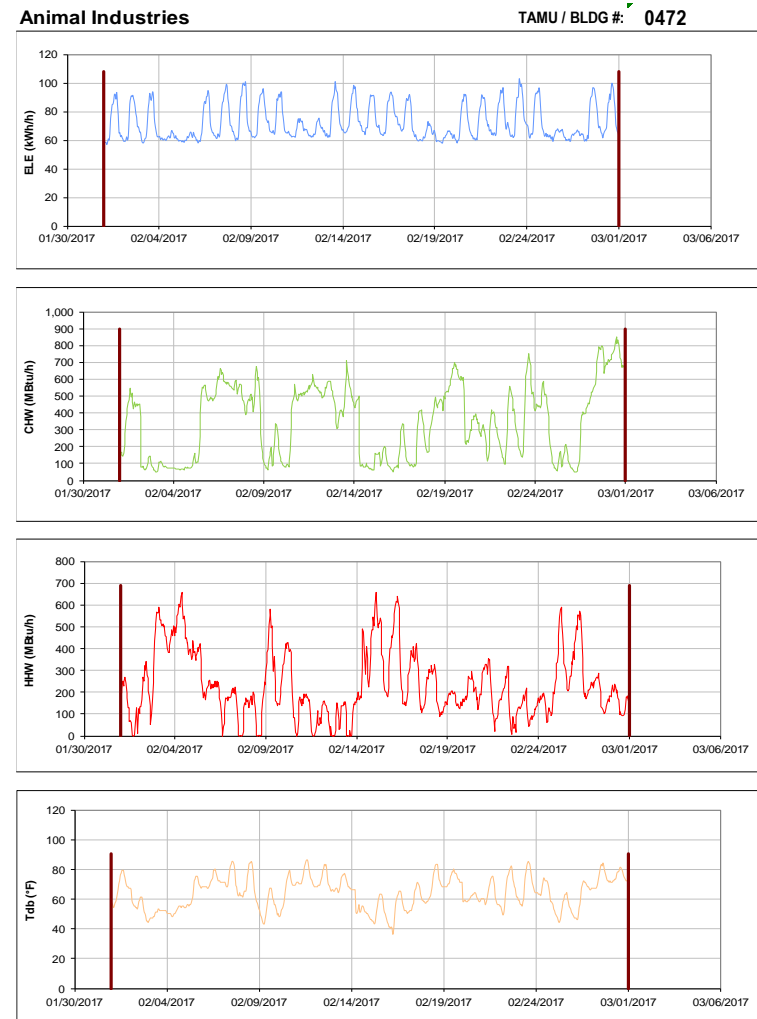


Figure III-80 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Animal Industries during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Williams Administration Building

TAMU / BLDG #: 0473

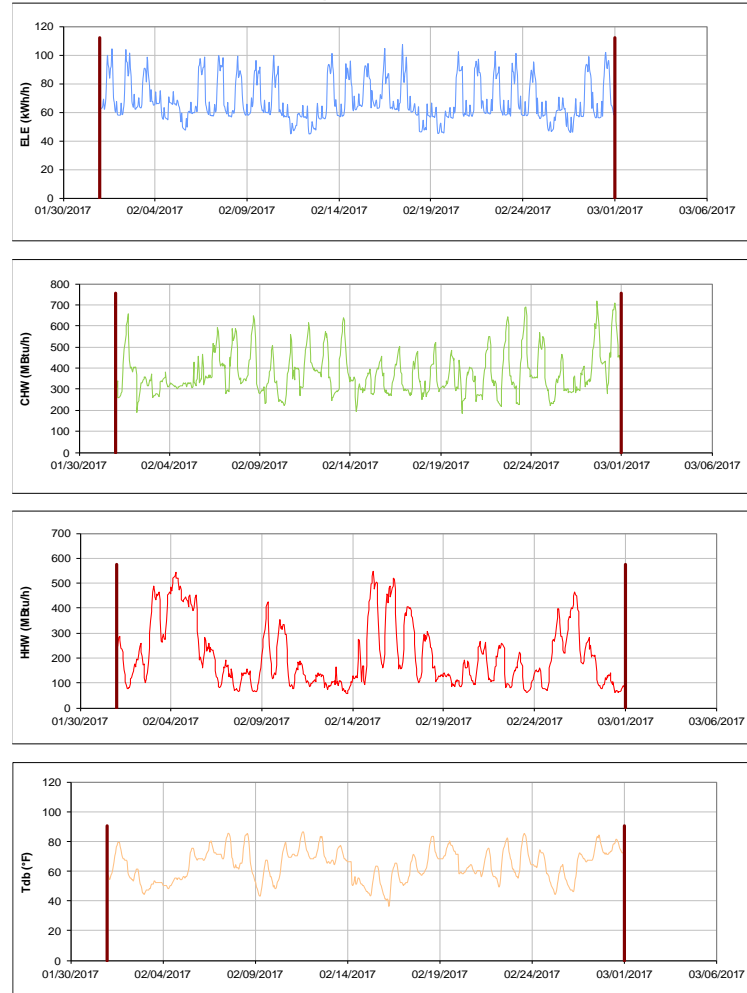


Figure III-81 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Williams Administration Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

YMCA Building

TAMU / BLDG #: 0474

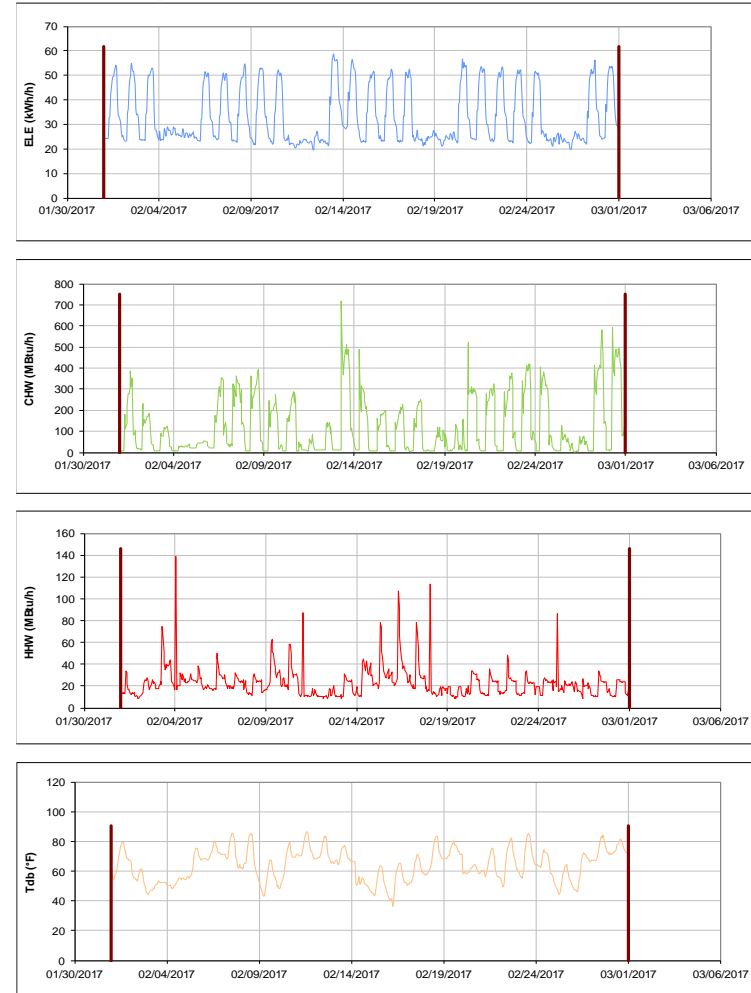


Figure III-82 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for YMCA Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Francis Hall

TAMU / BLDG #: 0476

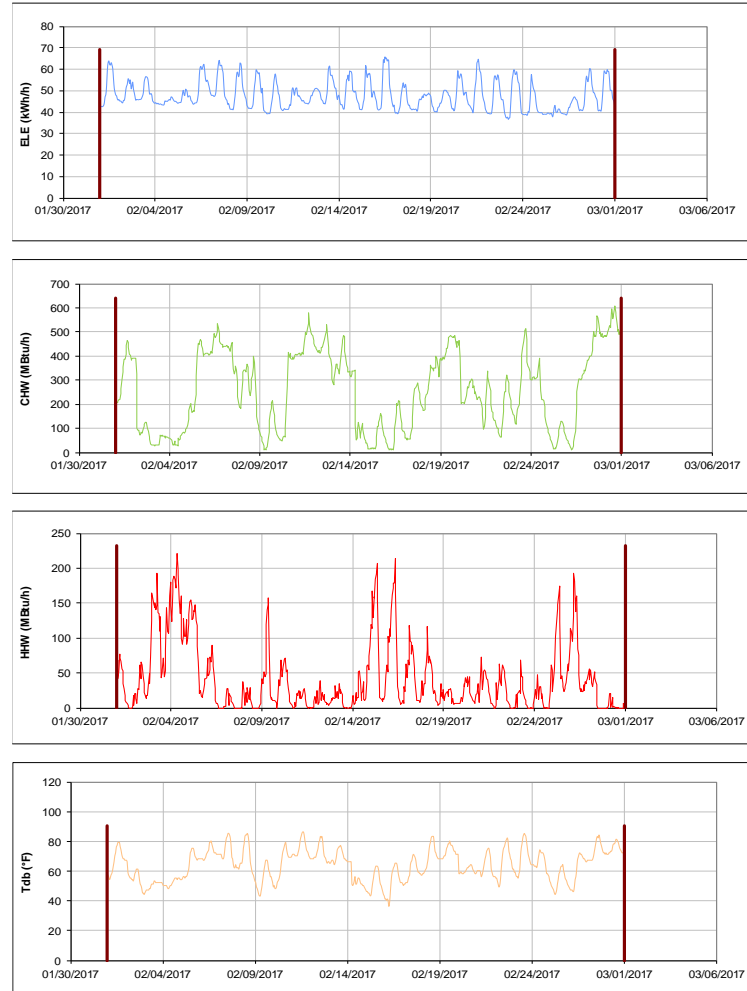


Figure III-83 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Francis Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Anthropology Building

TAMU / BLDG #: 0477

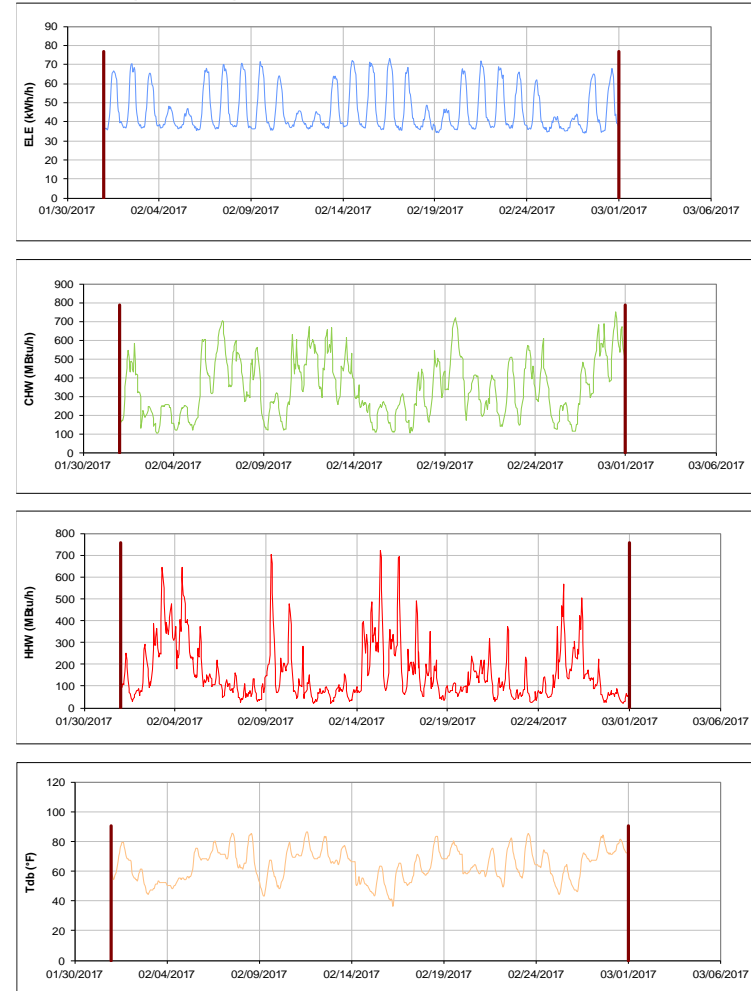


Figure III-84 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Anthropology Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

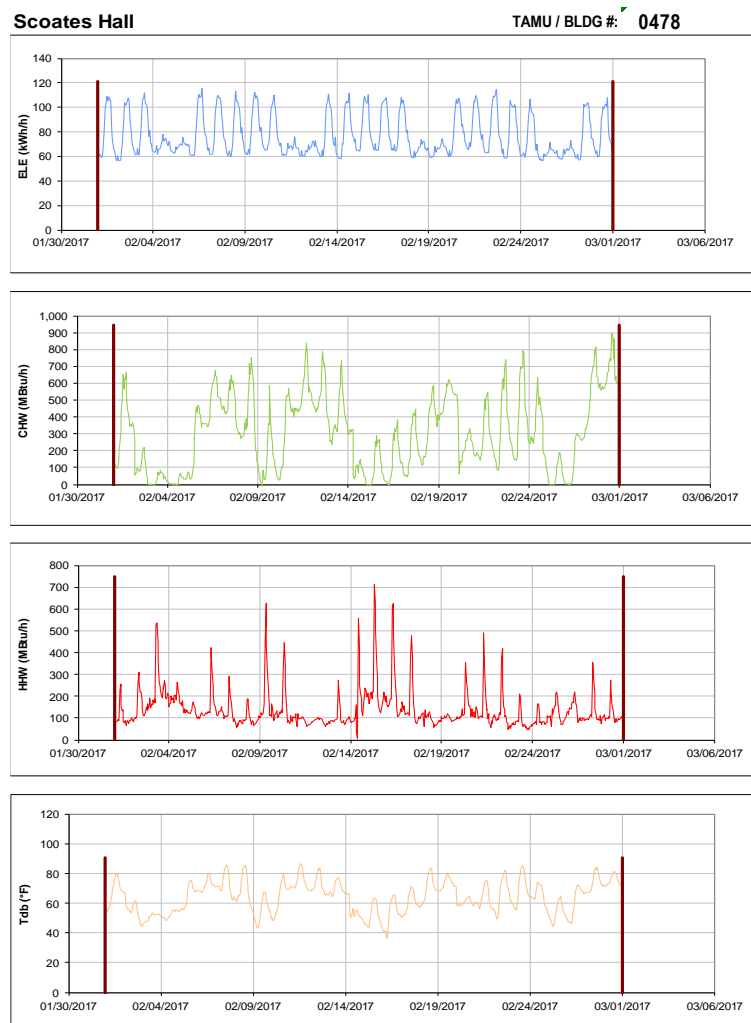


Figure III-85 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Scoates Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

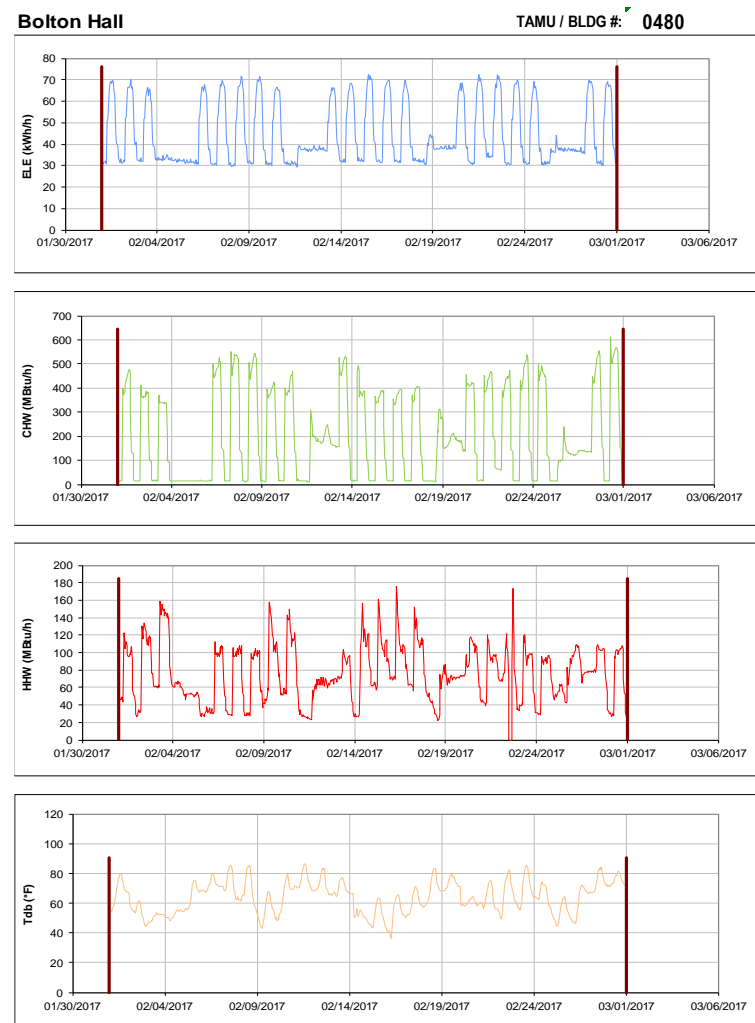


Figure III-86 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bolton Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Heaton Hall

TAMU / BLDG #: 0481

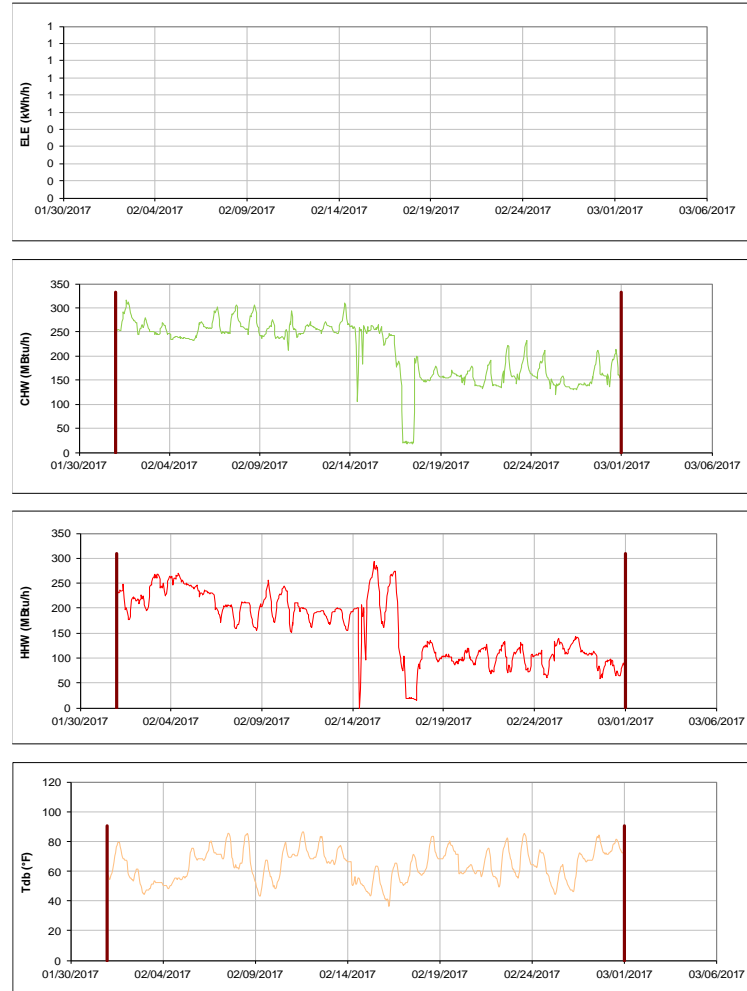


Figure III-87 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heaton Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Fermier Hall

TAMU / BLDG #: 0482



Figure III-88 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Fermier Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

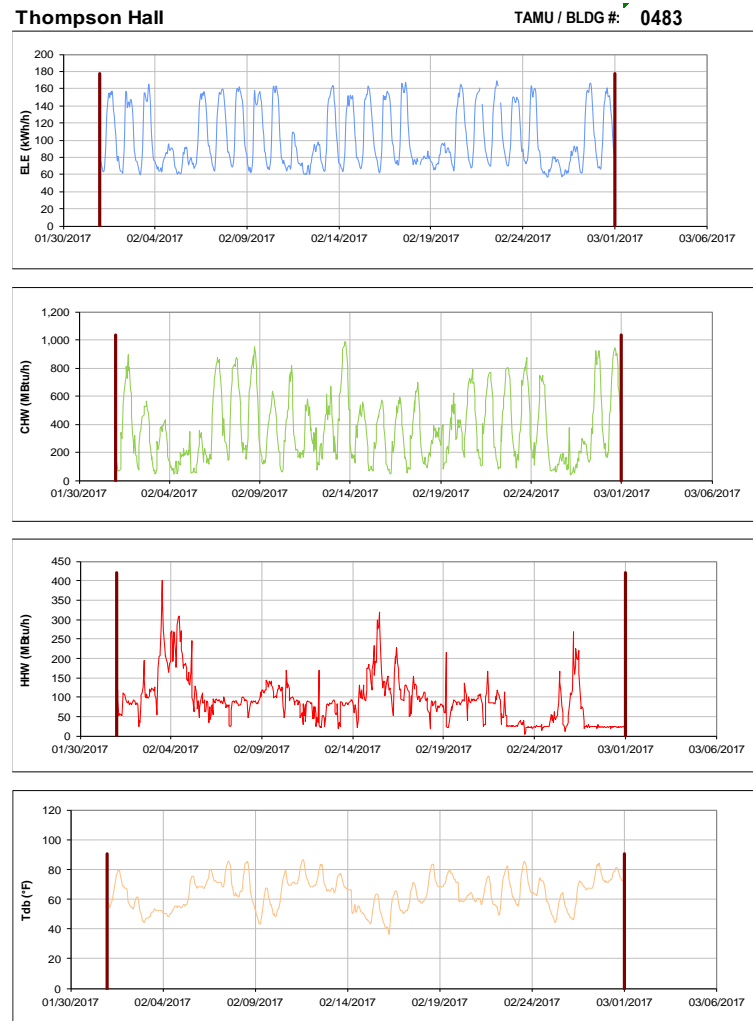


Figure III-89 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Thompson Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

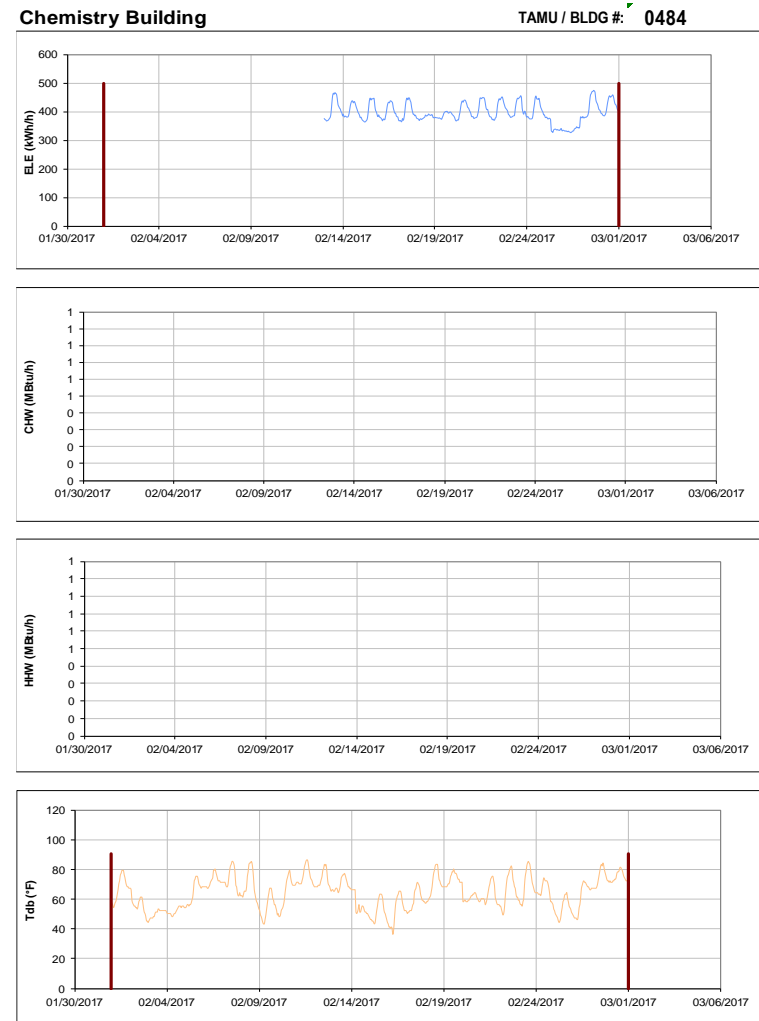


Figure III-90 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Chemistry Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Halbouty Geosciences Building

TAMU / BLDG #: 0490

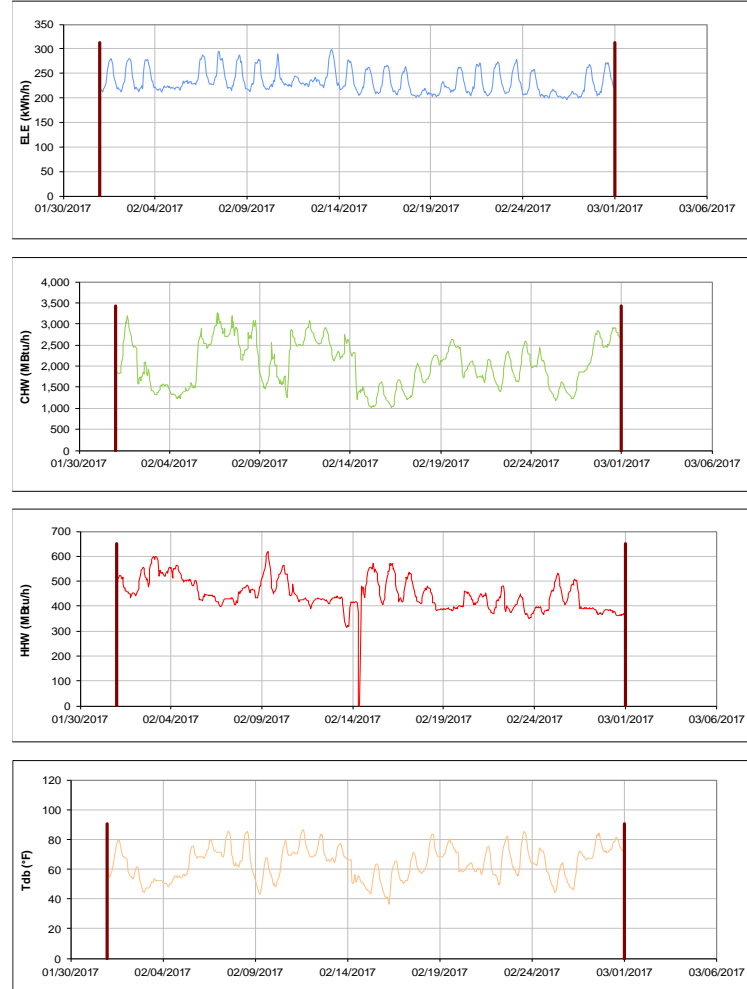


Figure III-91 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Halbouty Geosciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Civil Engineering Building

TAMU / BLDG #: 0492

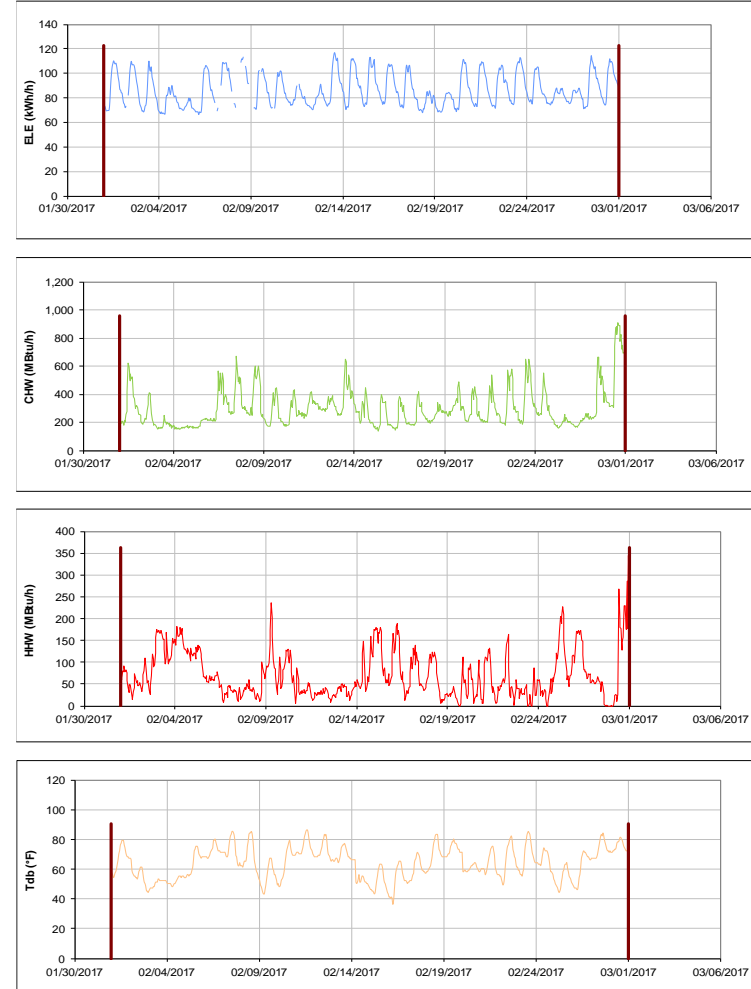


Figure III-92 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Civil Engineering Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Sbisa Dining Hall

TAMU / BLDG #: 0495

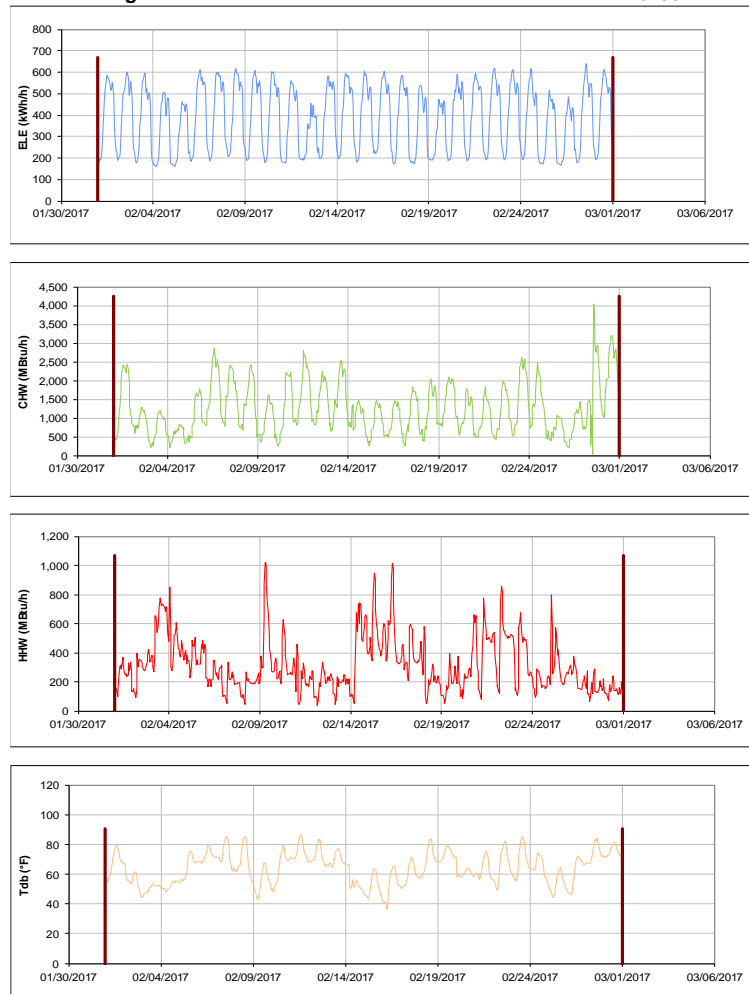


Figure III-93 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Sbisa Dining Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Utilities & Energy Services Central Office

TAMU / BLDG #: 0496

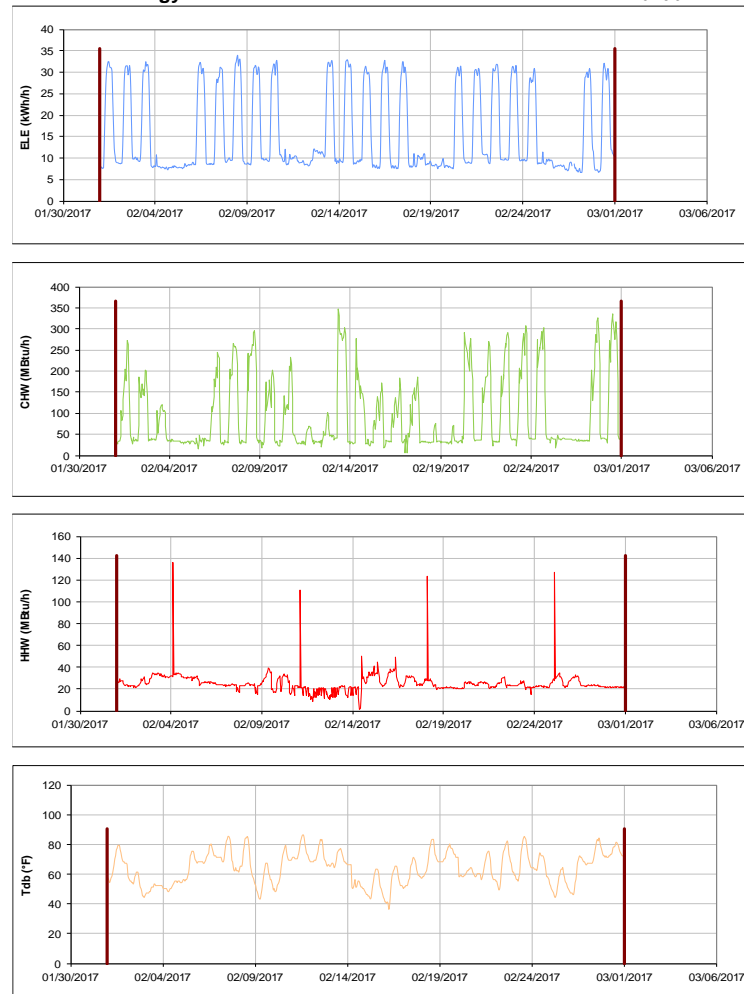


Figure III-94 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities & Energy Services Central Office during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Engineering Innovation Center

TAMU / BLDG #: 0499

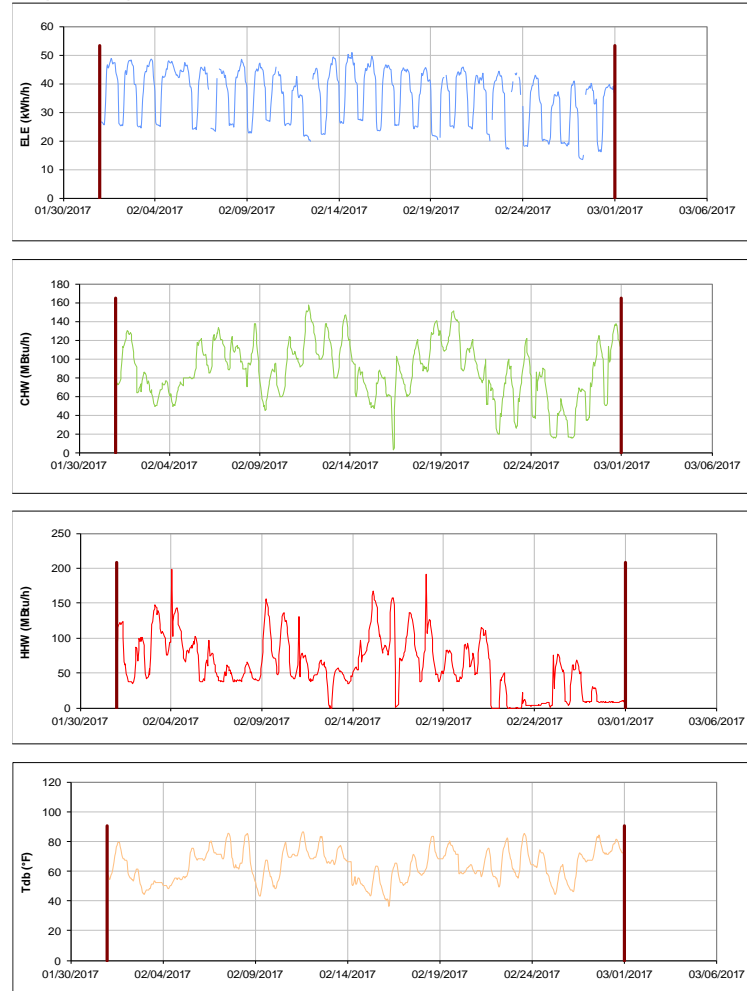


Figure III-95 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Engineering Innovation Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Concrete Materials Laboratory

TAMU / BLDG #: 0501

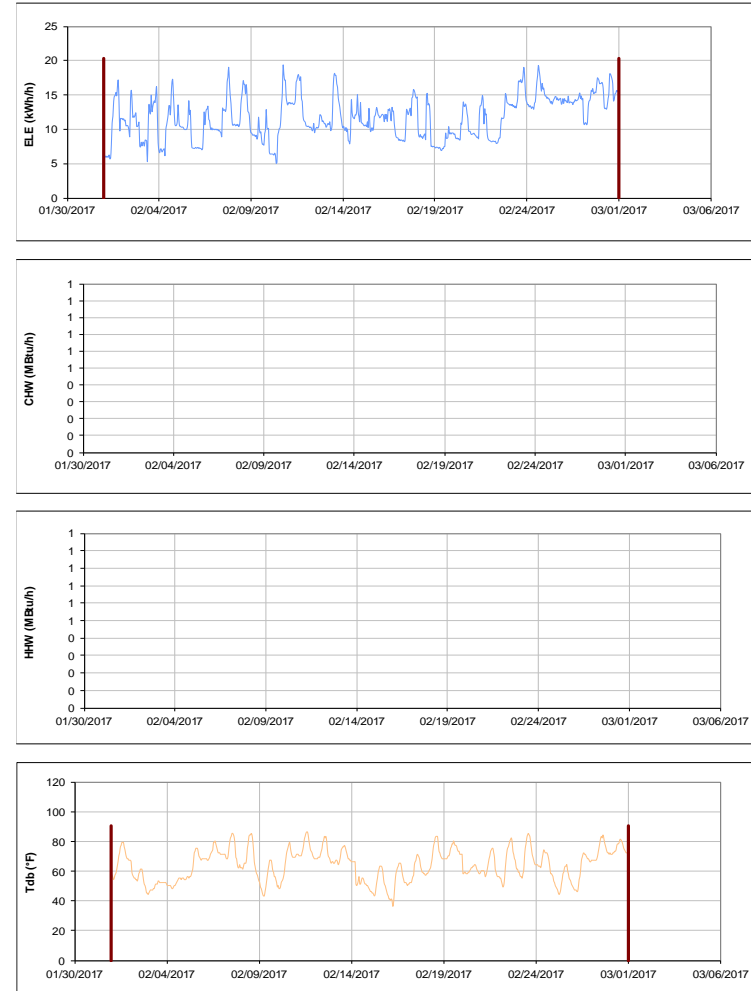


Figure III-96 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Concrete Materials Laboratory during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

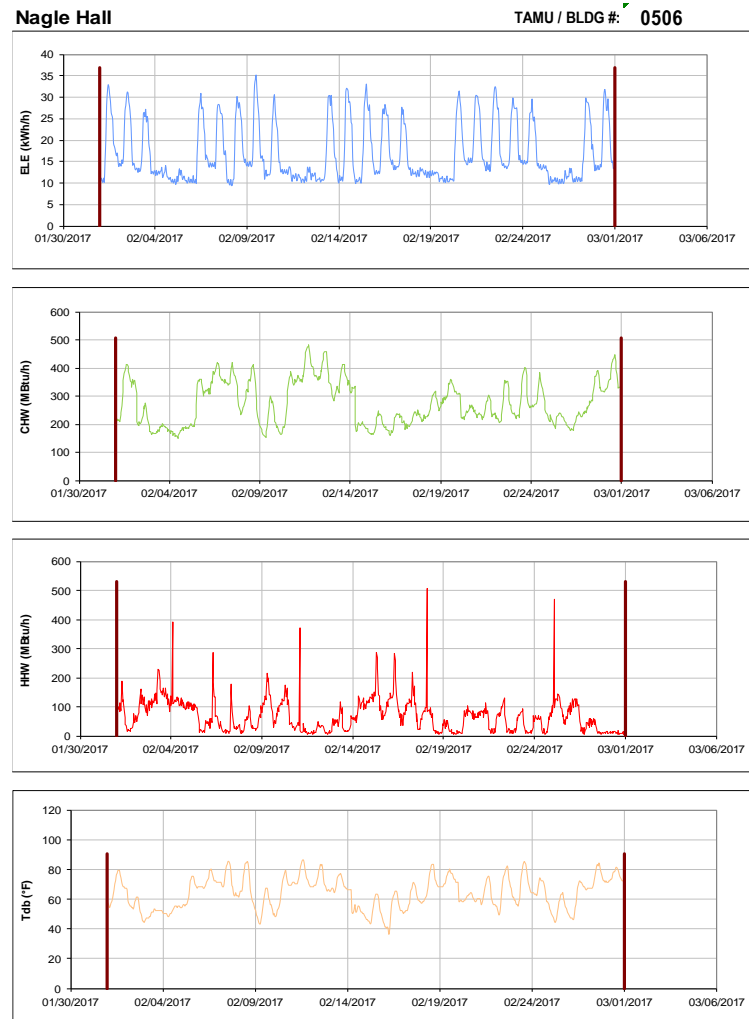


Figure III-97 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Nagle Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

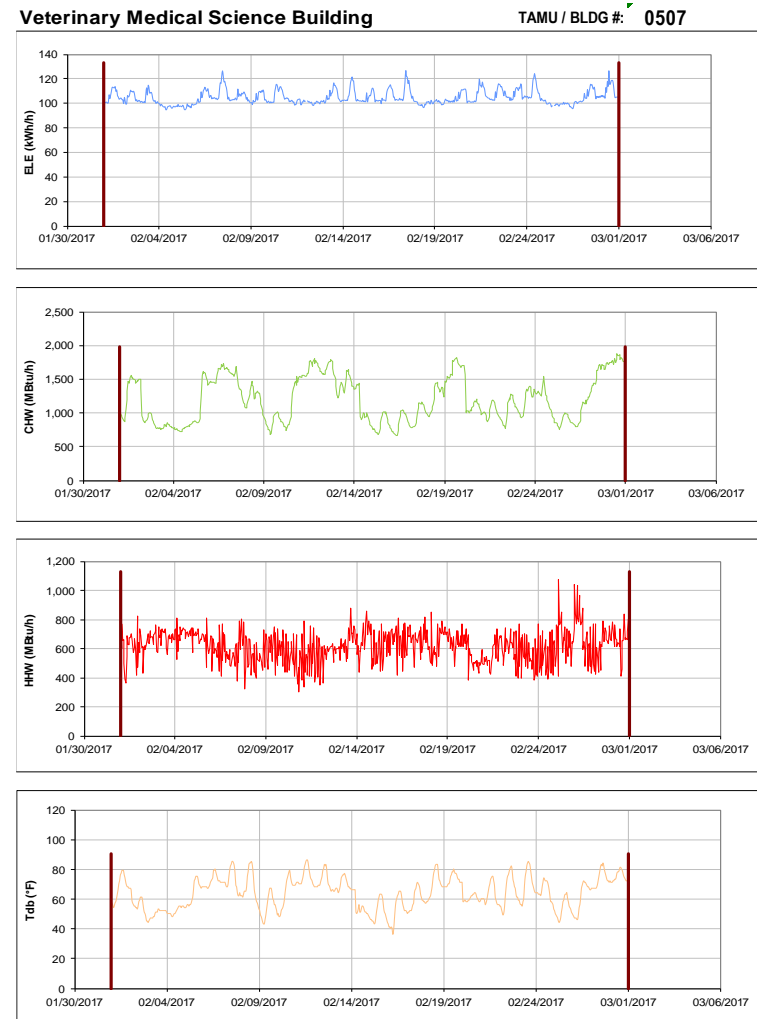


Figure III-98 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Medical Science Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Teaching Hospital and Med Adm

TAMU / BLDG #: 1508-1026



Figure III-99 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Teaching Hospital and Med Adm during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Heep Laboratory Building

TAMU / BLDG #: 0511



Figure III-100 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heep Laboratory Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

All Faiths Chapel

TAMU / BLDG #: 0512

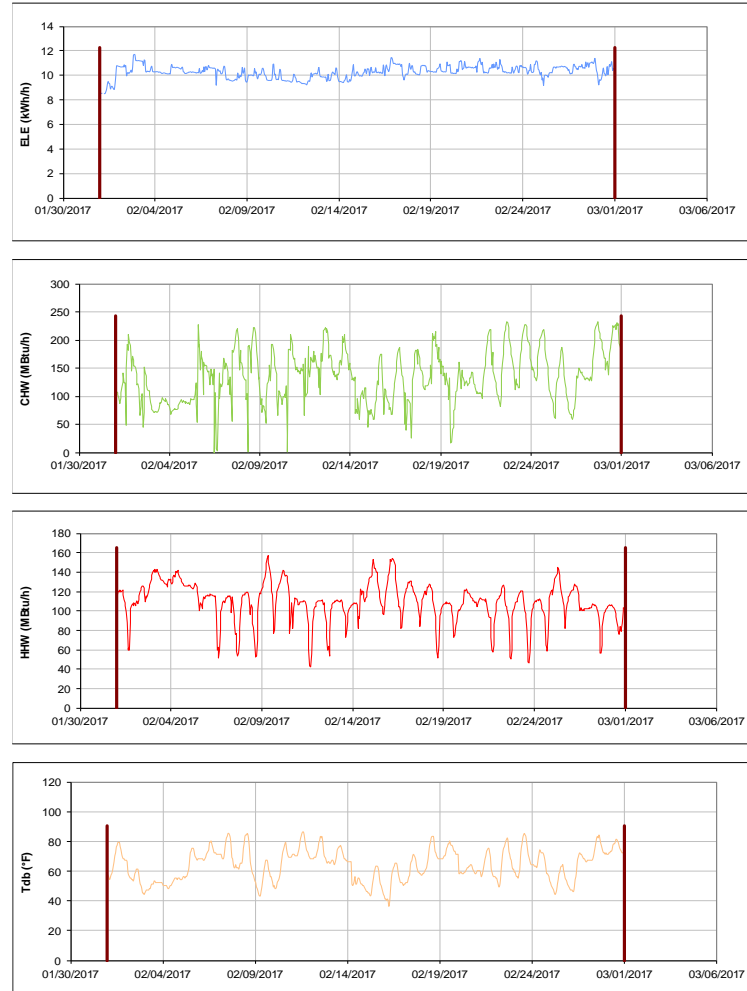


Figure III-101 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for All Faiths Chapel during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Doherty Building

TAMU / BLDG #: 0513

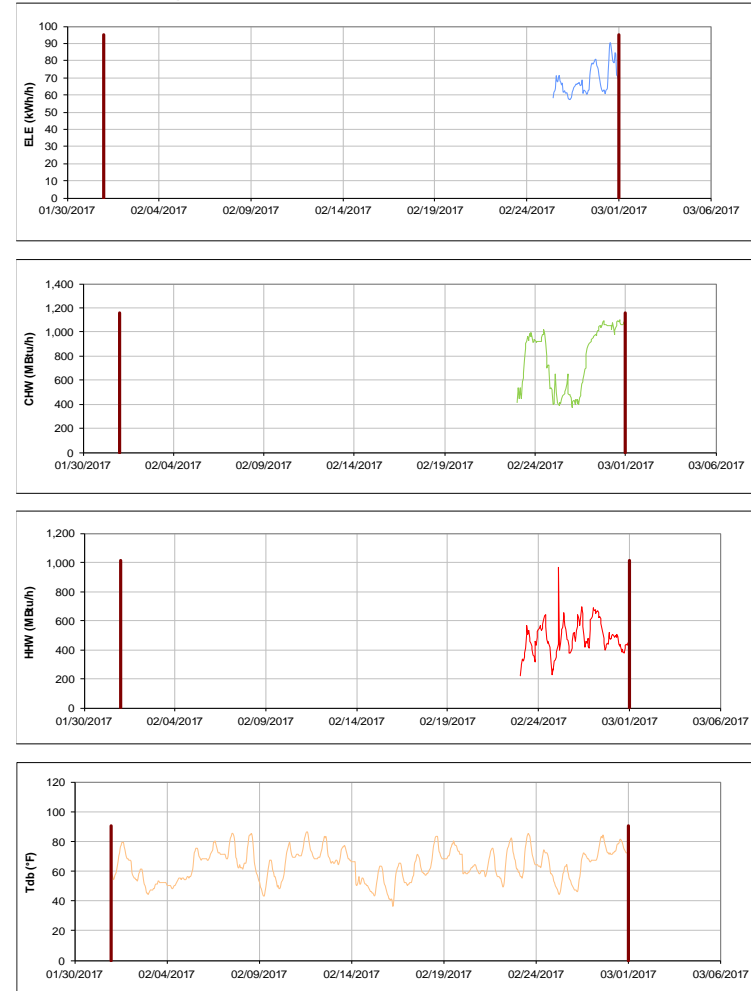


Figure III-102 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Doherty Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Munnerlyn Astronomy & Space Sciences Engineering TAMU / BLDG #: 0514

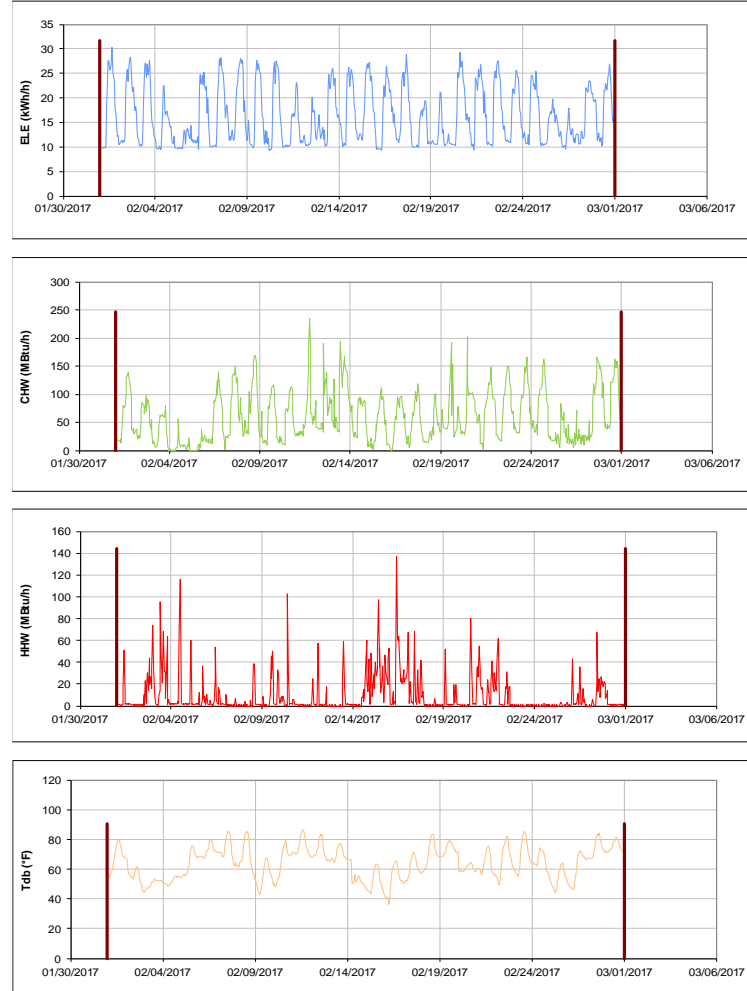


Figure III-103 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Munnerlyn Astronomy & Space Sciences Engineering during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Computing Services Center TAMU / BLDG #: 0516

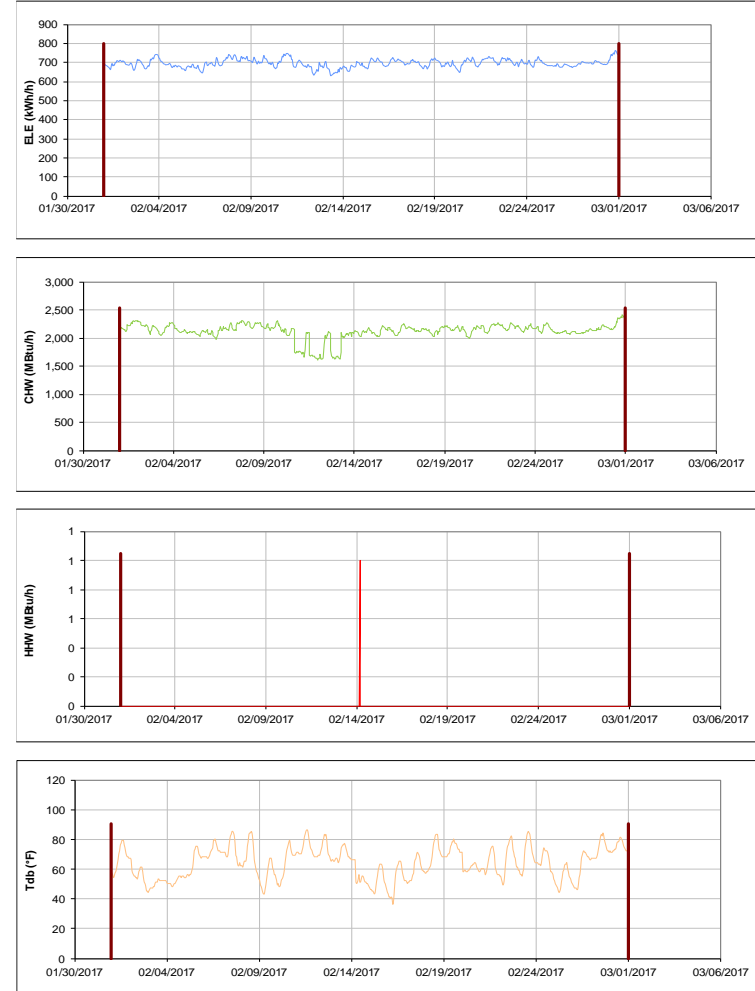


Figure III-104 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Computing Services Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

DPC Annex

TAMU / BLDG #: 0517

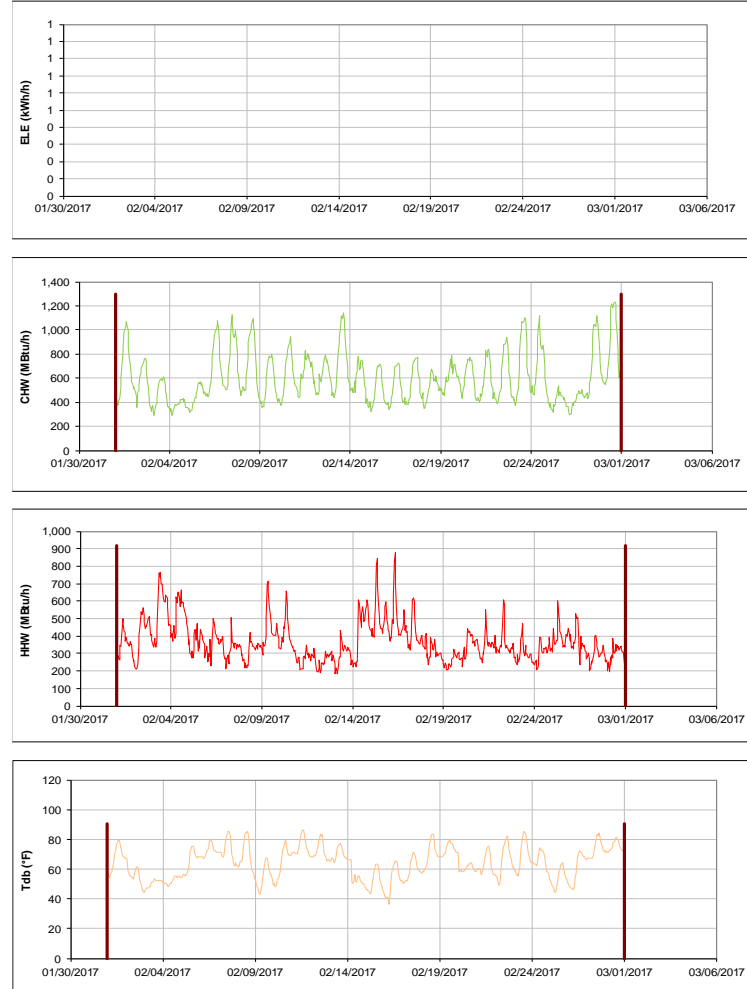


Figure III-105 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for DPC Annex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Beutel Health Center

TAMU / BLDG #: 0520

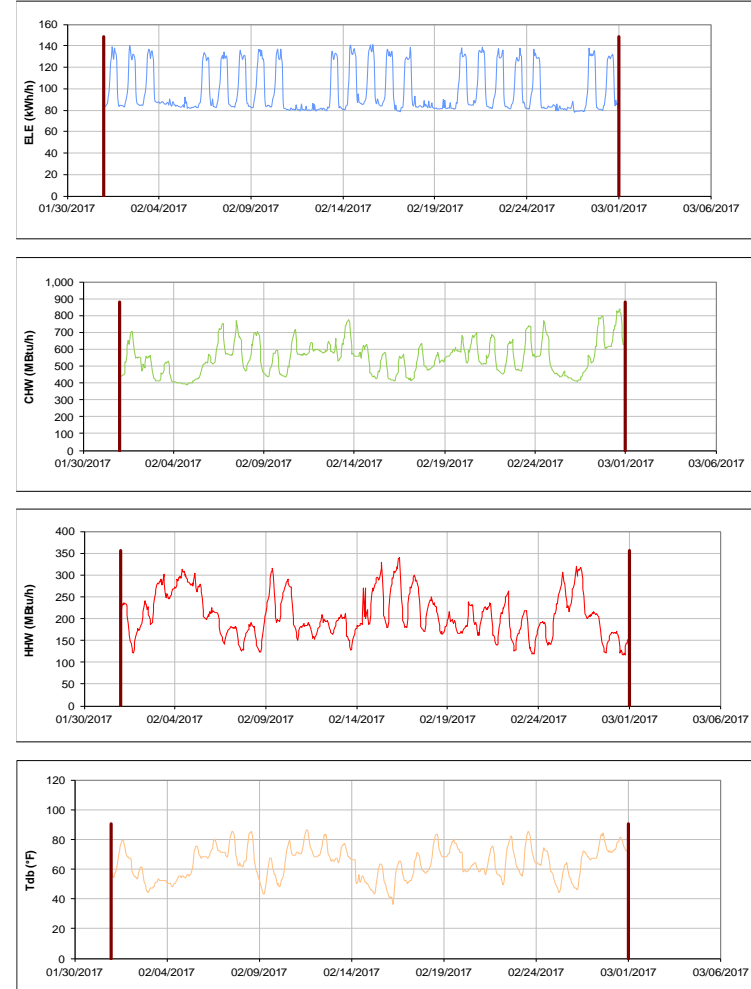


Figure III-106 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Beutel Health Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

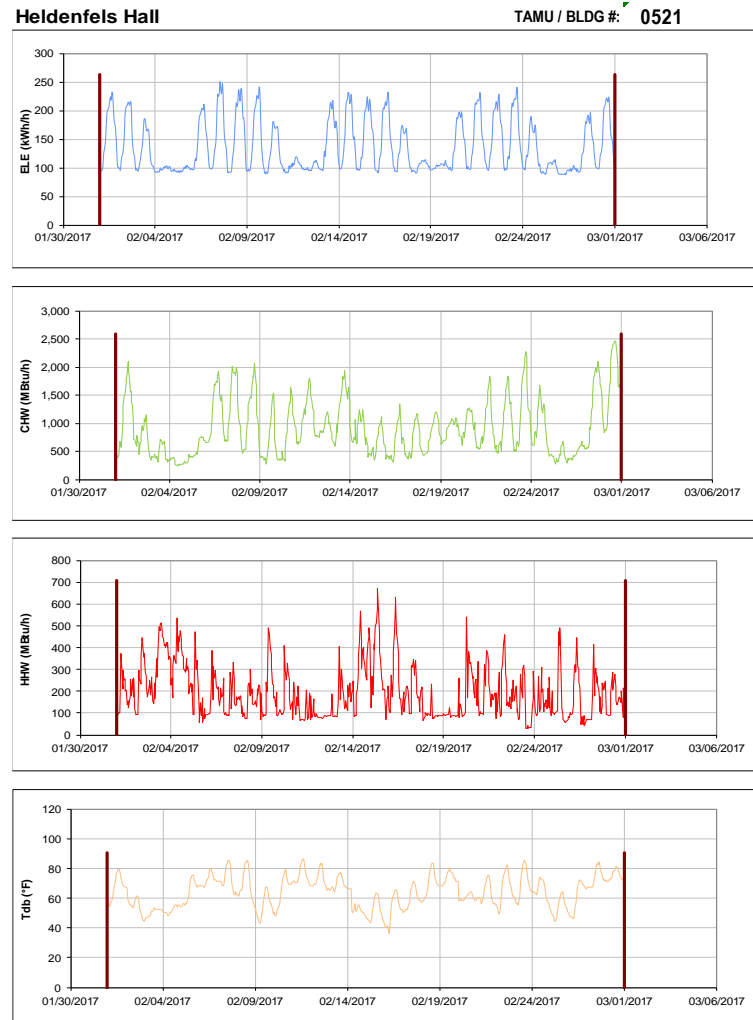


Figure III-107 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heldenfels Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

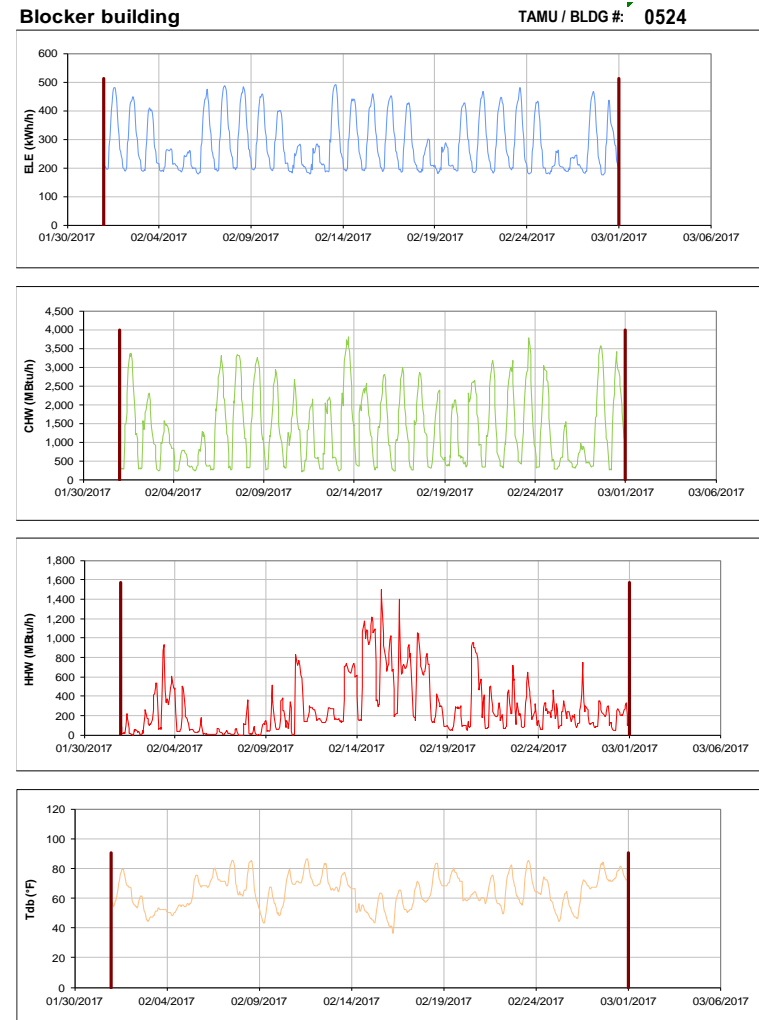


Figure III-108 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Blocker building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

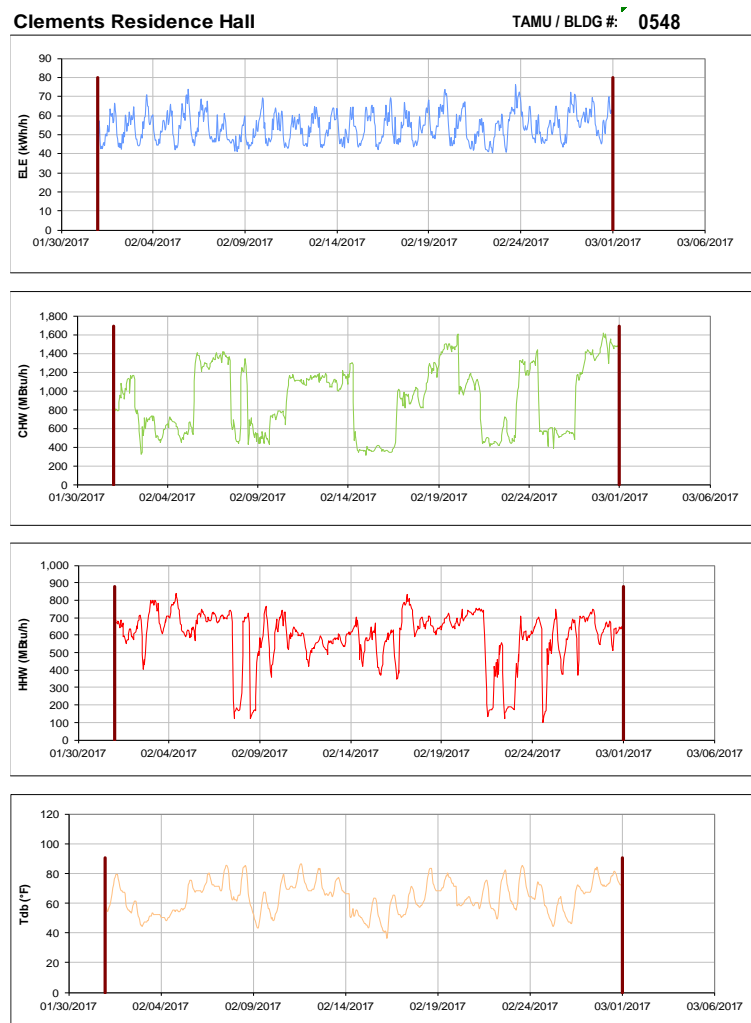


Figure III-109 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Clements Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

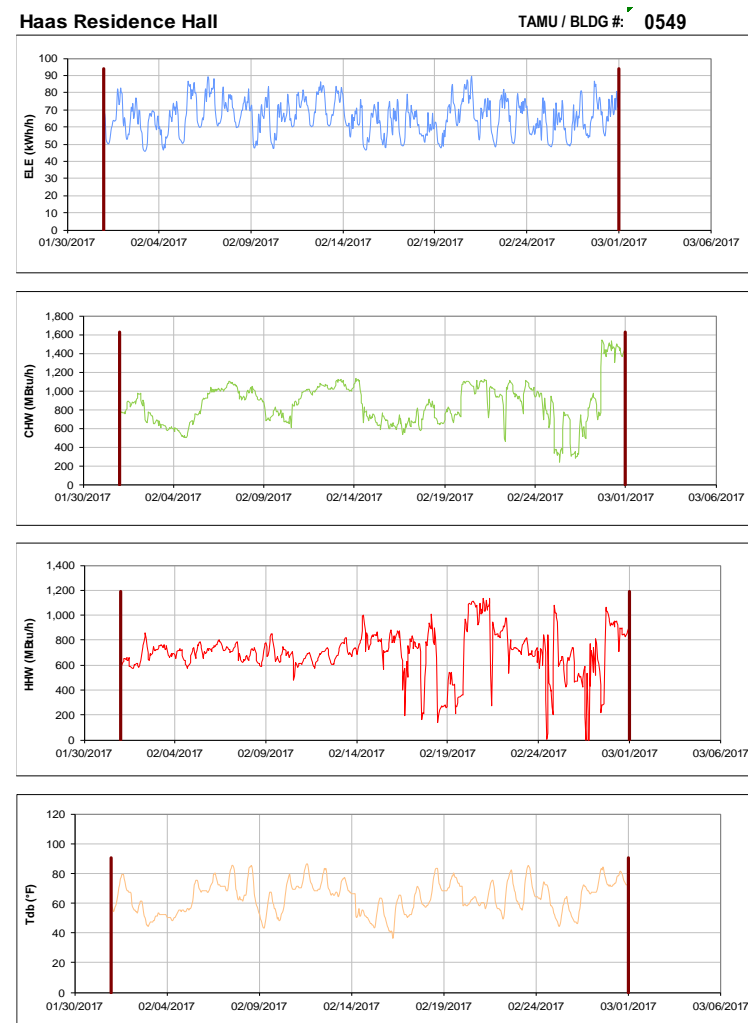


Figure III-110 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Haas Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

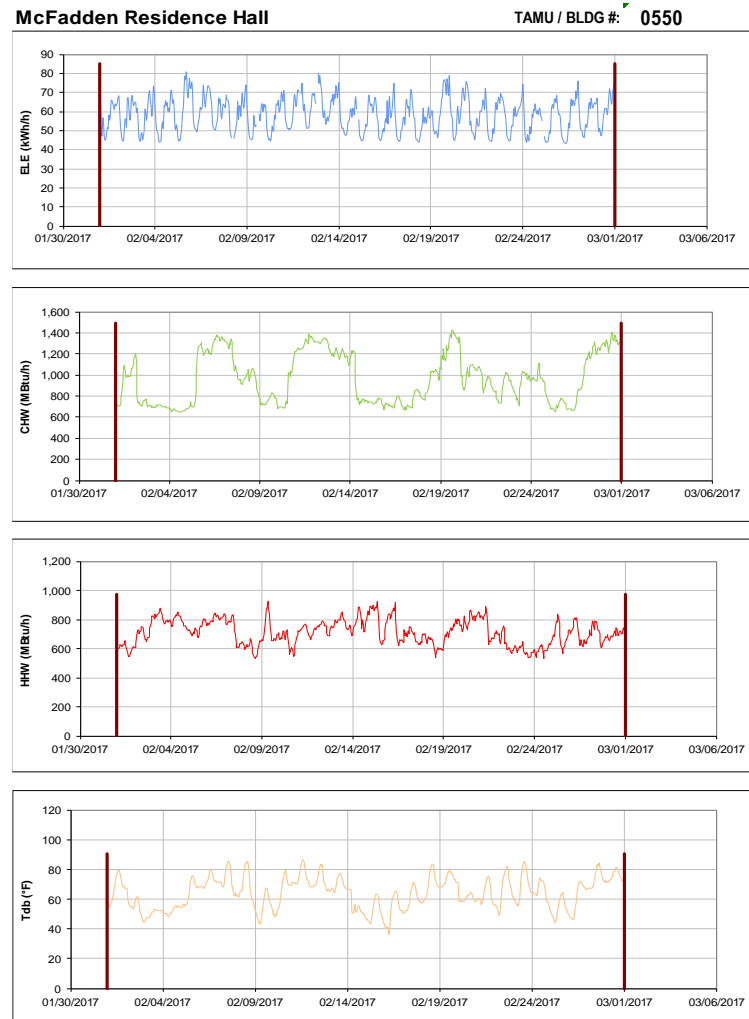


Figure III-111 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for McFadden Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

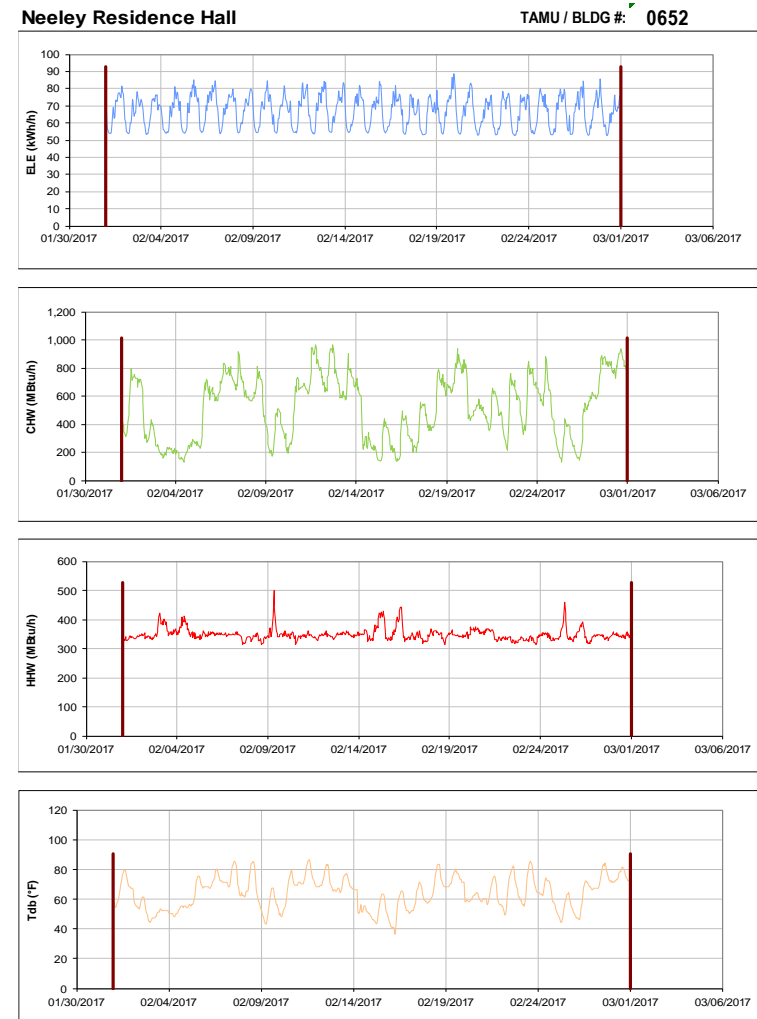


Figure III-112 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Neeley Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Hobby Residence Hall

TAMU / BLDG #: 0653

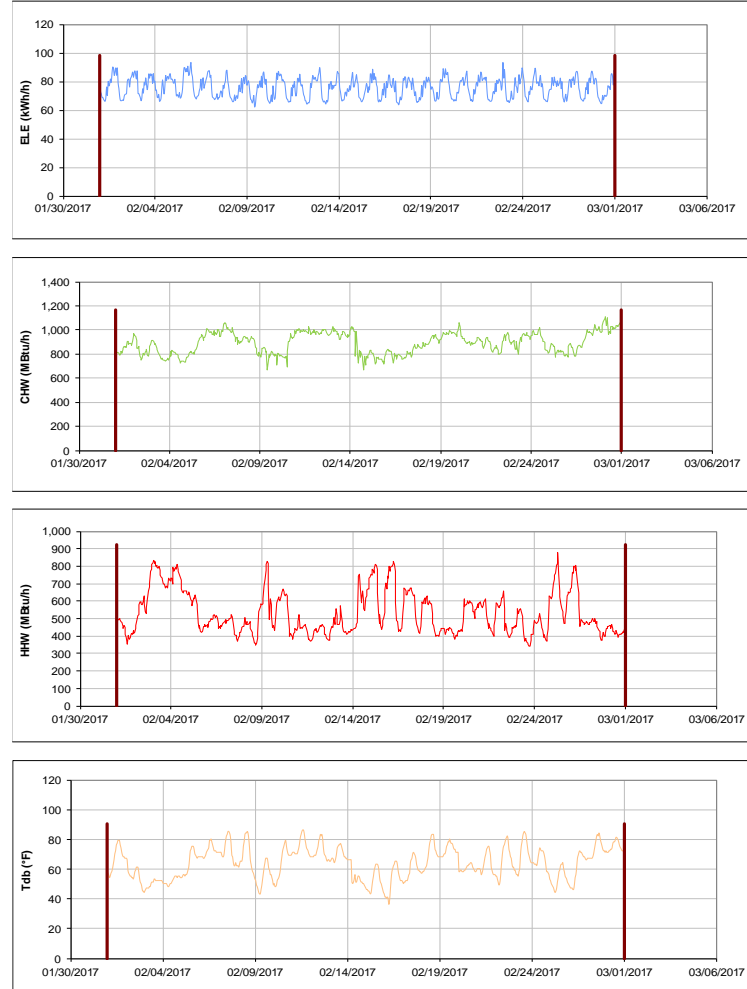


Figure III-113 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hobby Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Wisnabaker Engineering Research Center

TAMU / BLDG #: 0682

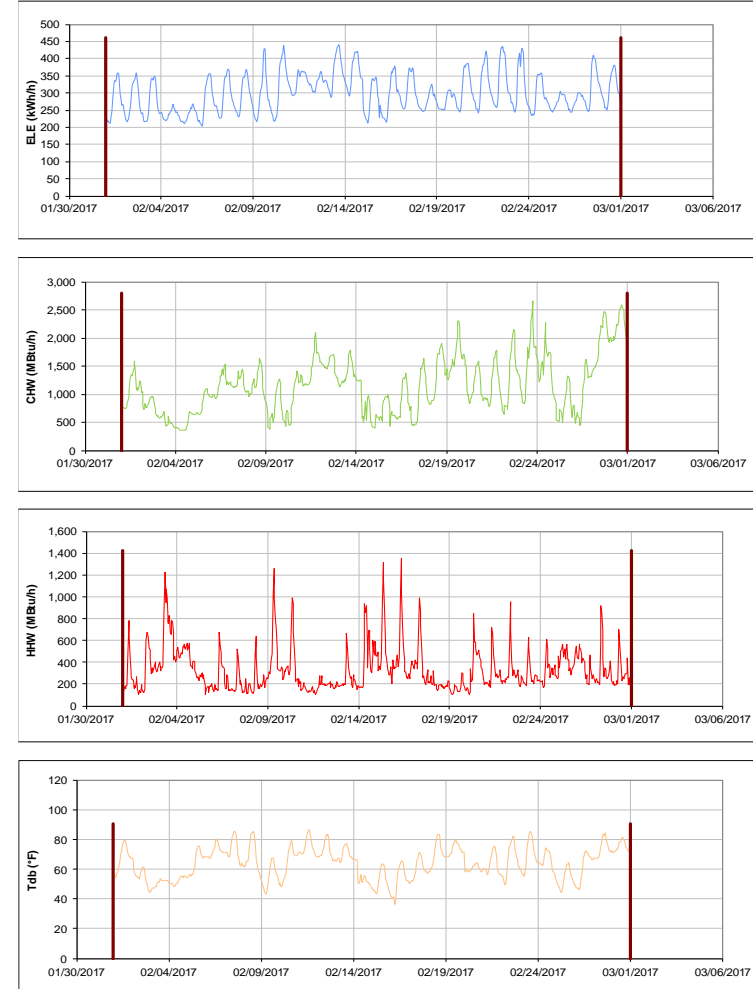


Figure III-114 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wisnabaker Engineering Research Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

McNew Laboratory

TAMU / BLDG #: 0740

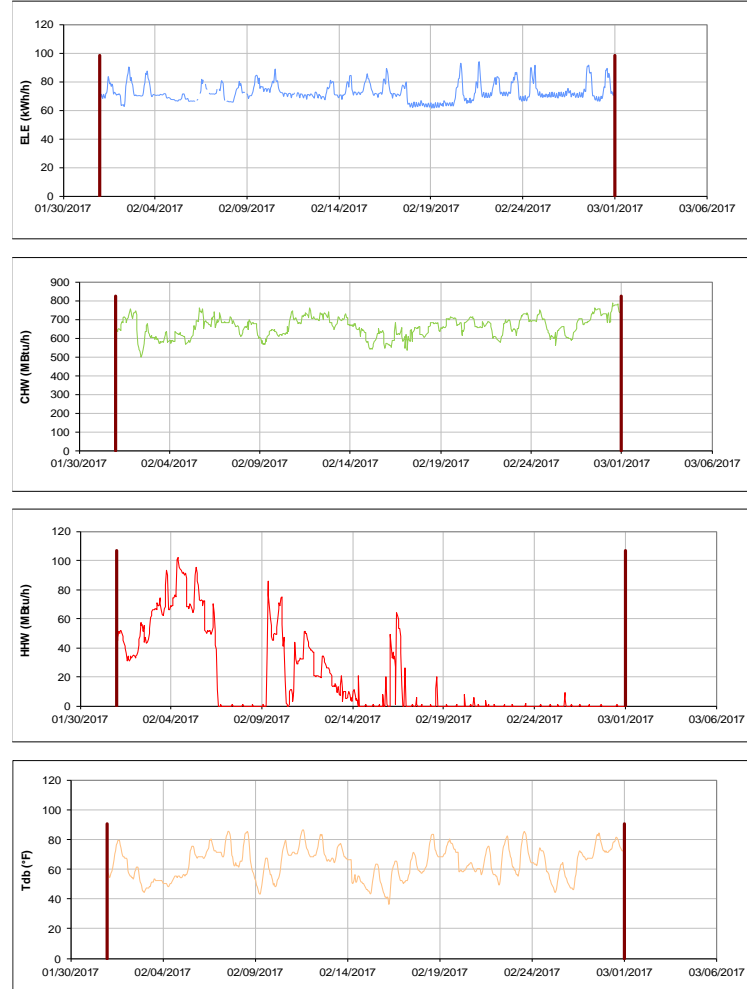


Figure III-115 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for McNew Laboratory during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Soil Testing Labs

TAMU / BLDG #: 0806

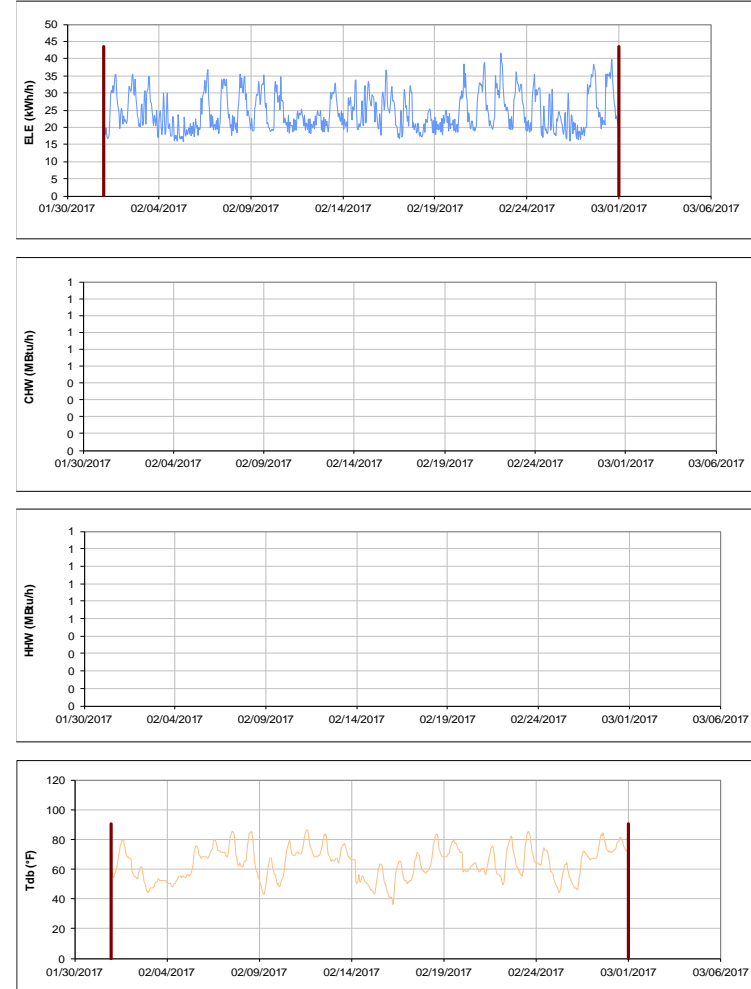


Figure III-116 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Soil Testing Labs during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Entomology Research Lab

TAMU / BLDG #: 0815

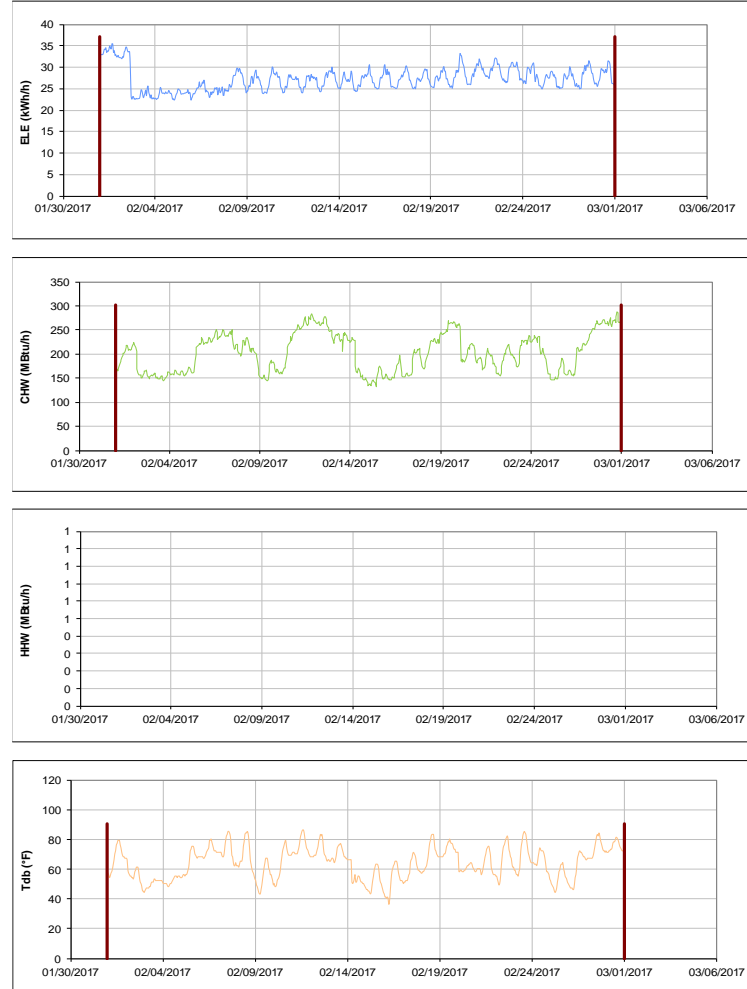


Figure III-117 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Entomology Research Lab during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

TVMC-Small Animal Building

TAMU / BLDG #: 0880

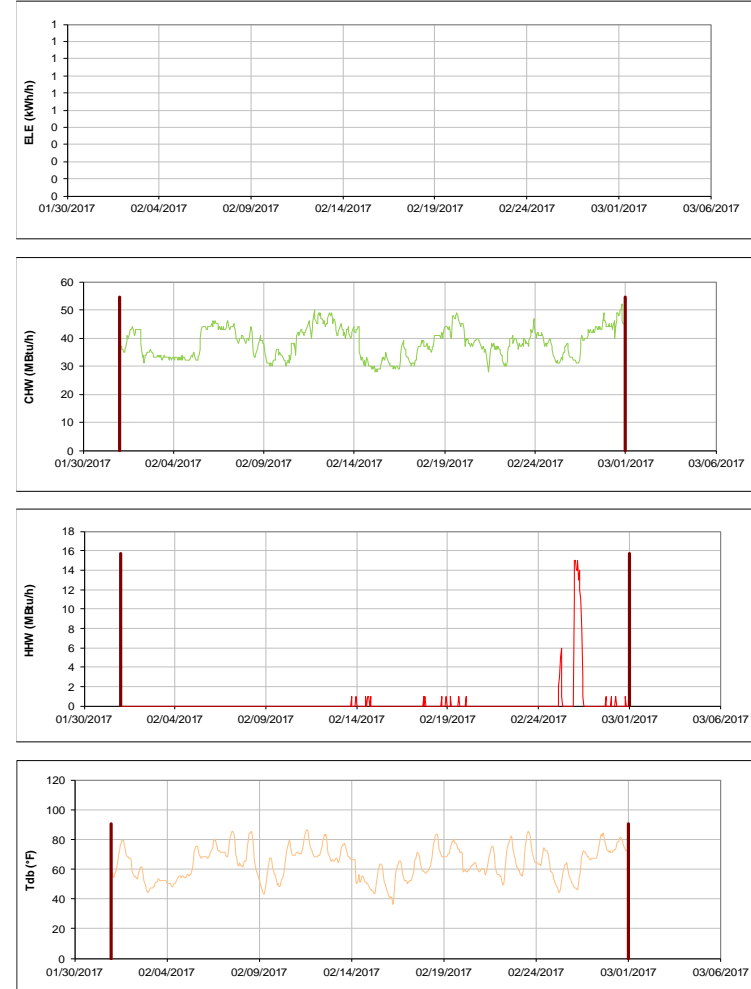


Figure III-118 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TVMC-Small Animal Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Laboratory Animal Care Building

TAMU / BLDG #: 0972

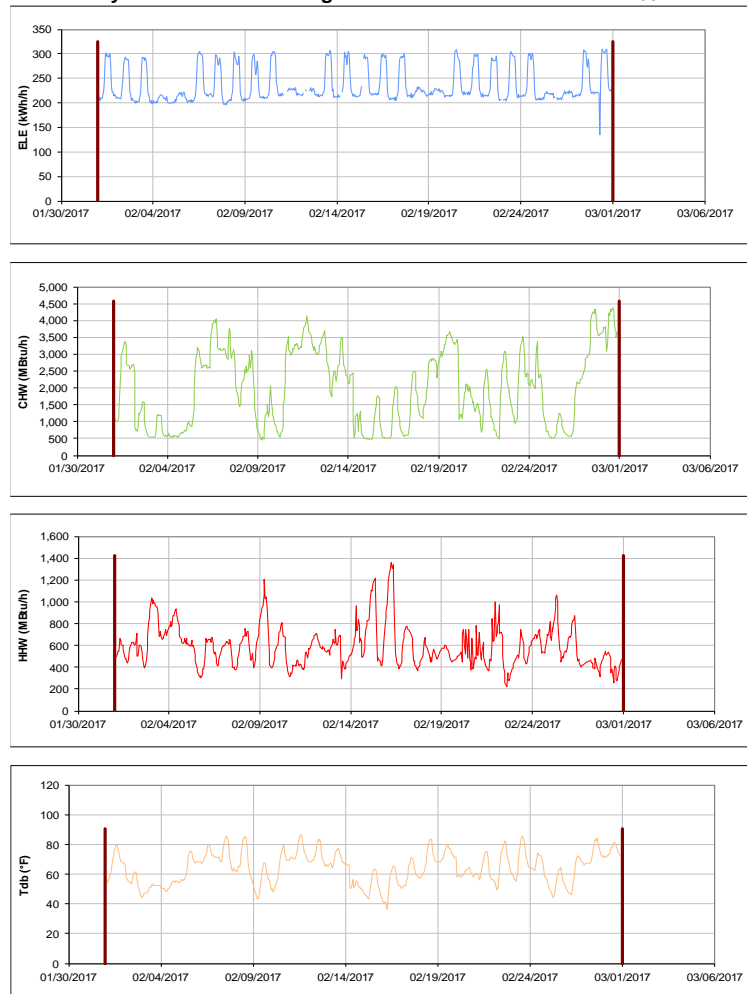


Figure III-119 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Laboratory Animal Care Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Vivarium III

TAMU / BLDG #: 1020

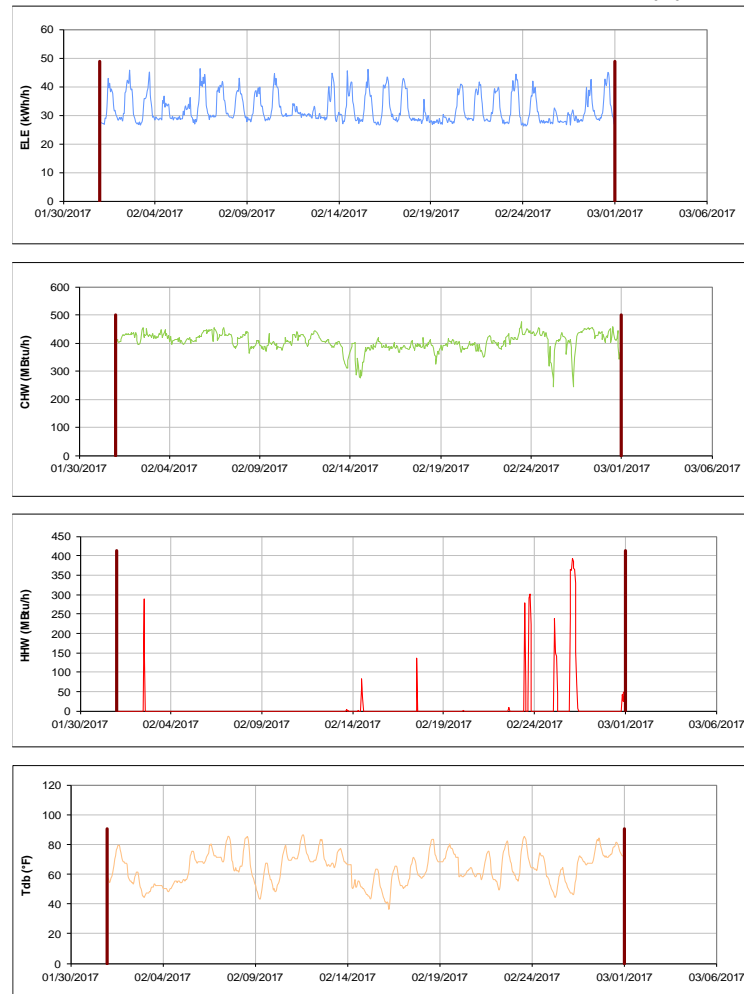


Figure III-120 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Vivarium III during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Medicine Administration

TAMU / BLDG #: 1026



Figure III-121 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Medicine Administration during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Texas Vet Med Diagnostic Lab

TAMU / BLDG #: 1041

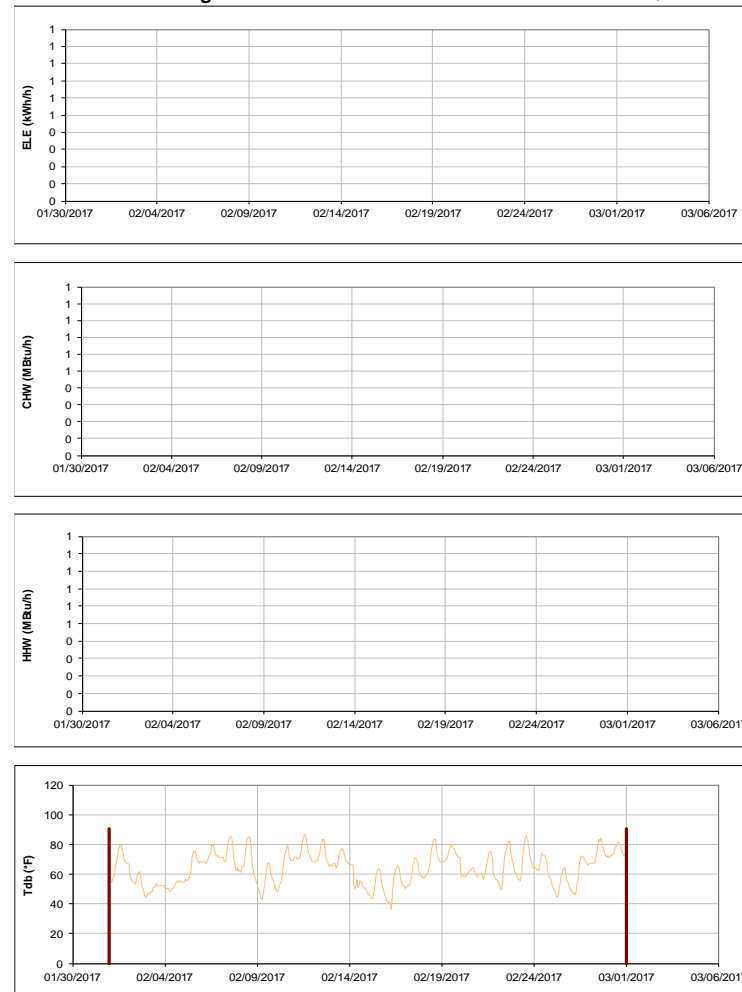


Figure III-122 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas Vet Med Diagnostic Lab during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Forest Science Laboratory Building

TAMU / BLDG #: 1042

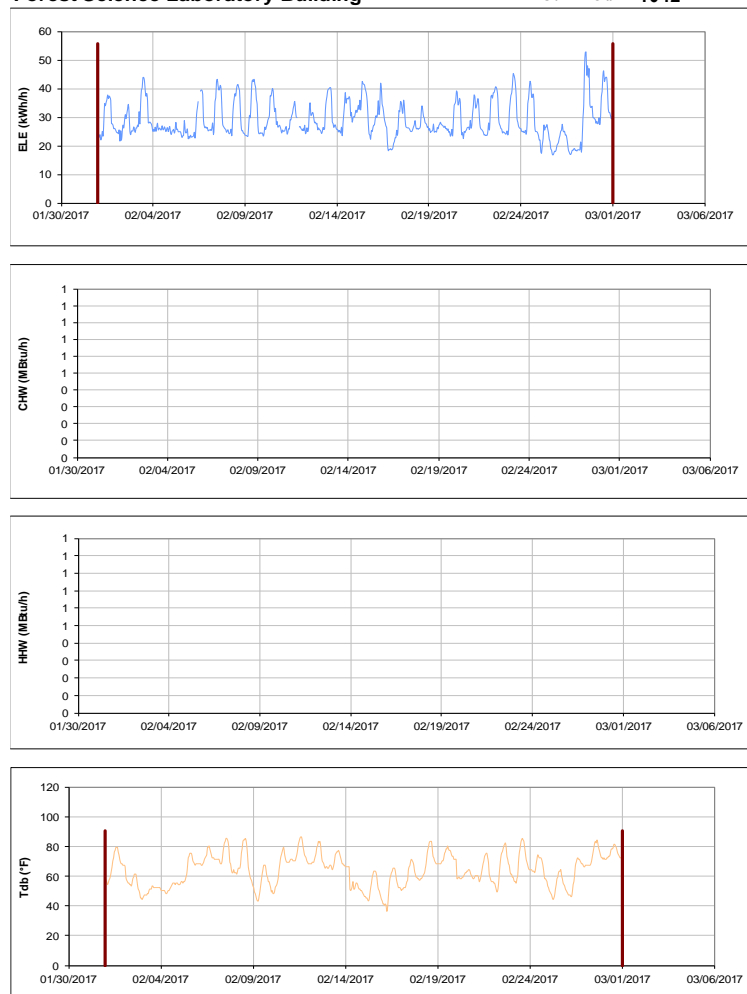


Figure III-123 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Forest Science Laboratory Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Small Animal Hospital

TAMU / BLDG #: 1085

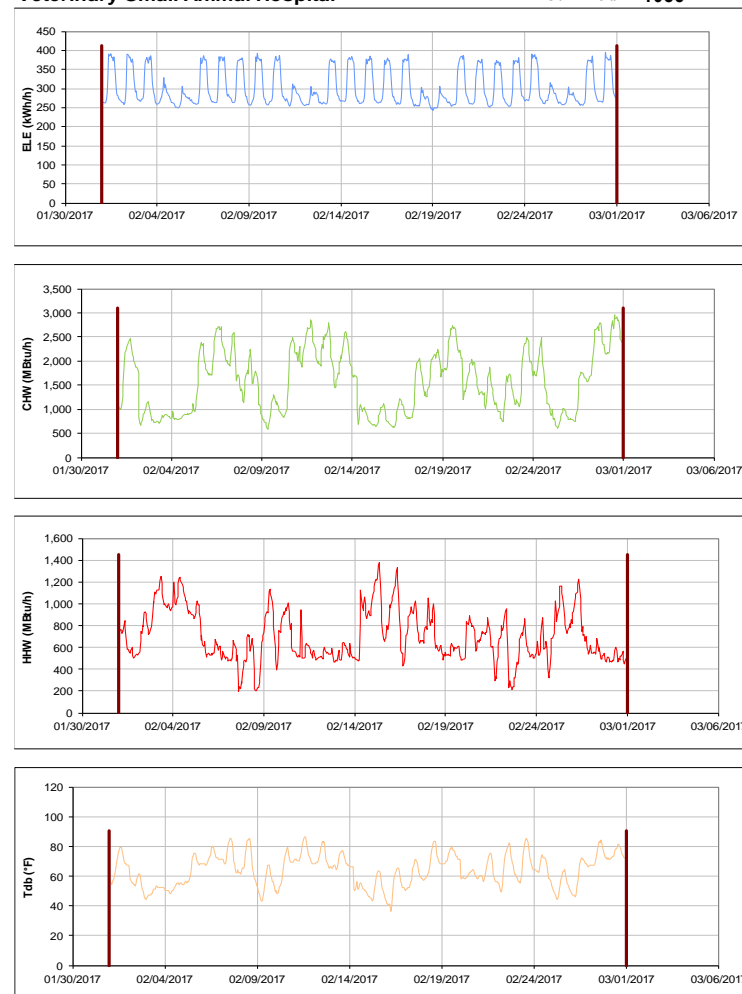


Figure III-124 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Small Animal Hospital during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Utilities Energy Office Annex

TAMU / BLDG #: 1089

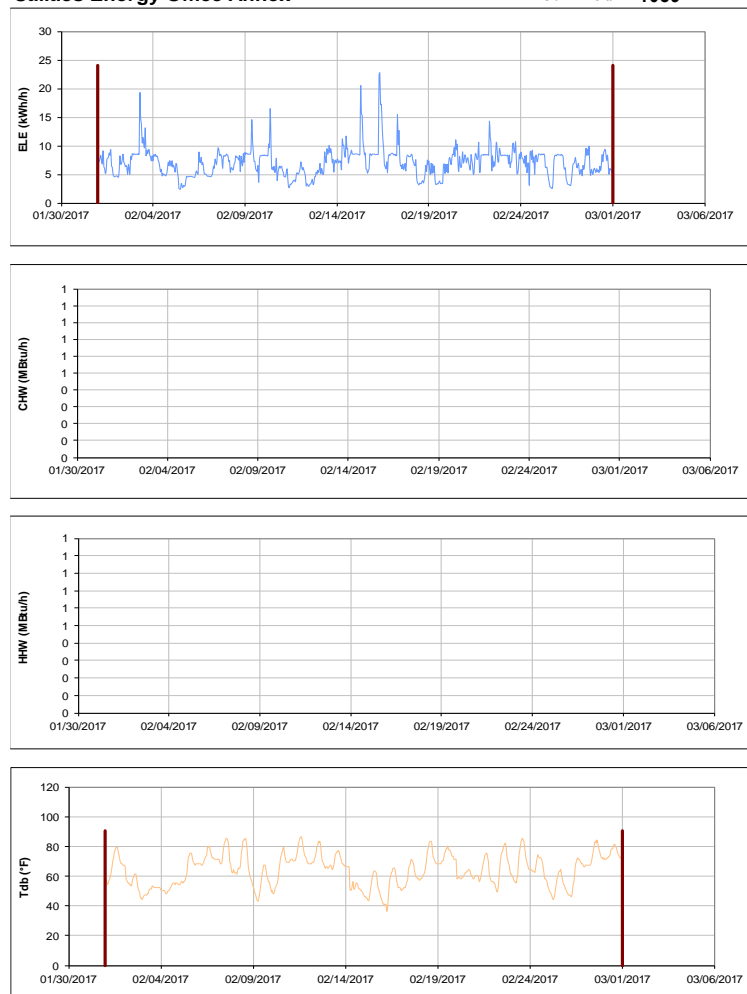


Figure III-125 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities Energy Office Annex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Biological Control Facility

TAMU / BLDG #: 1146

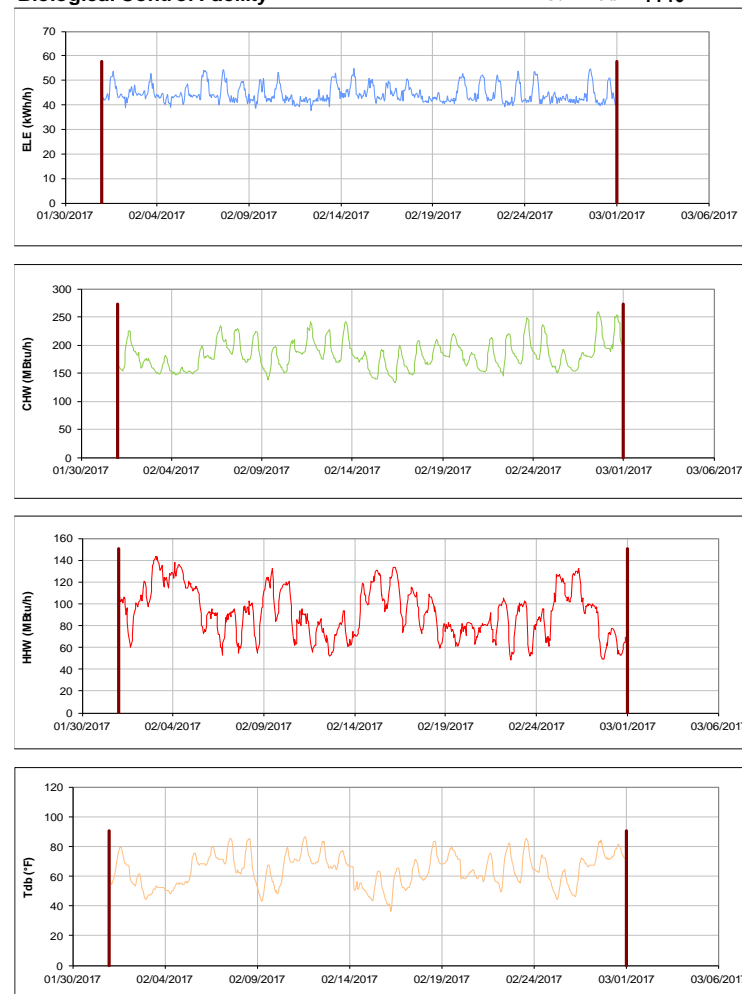


Figure III-126 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Control Facility during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Physical Plant Administration & Shops

TAMU / BLDG #: 1156

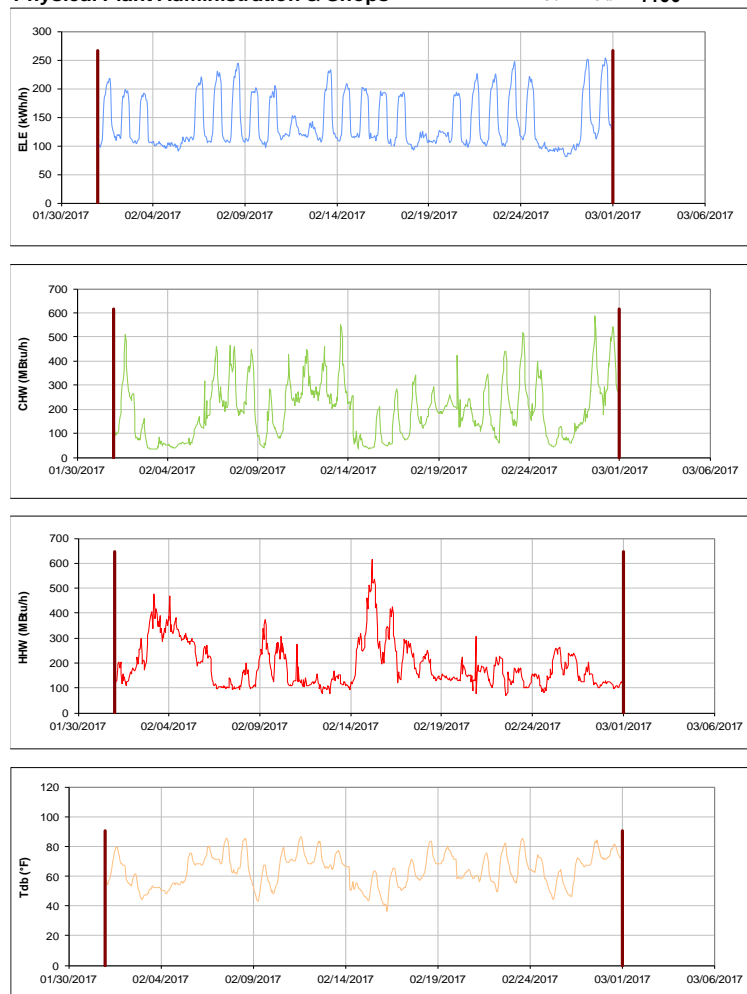


Figure III-127 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Physical Plant Administration & Shops during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Anatomic Pathology

TAMU / BLDG #: 1184



Figure III-128 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Anatomic Pathology during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Large Animal Hospital

TAMU / BLDG #: 1194

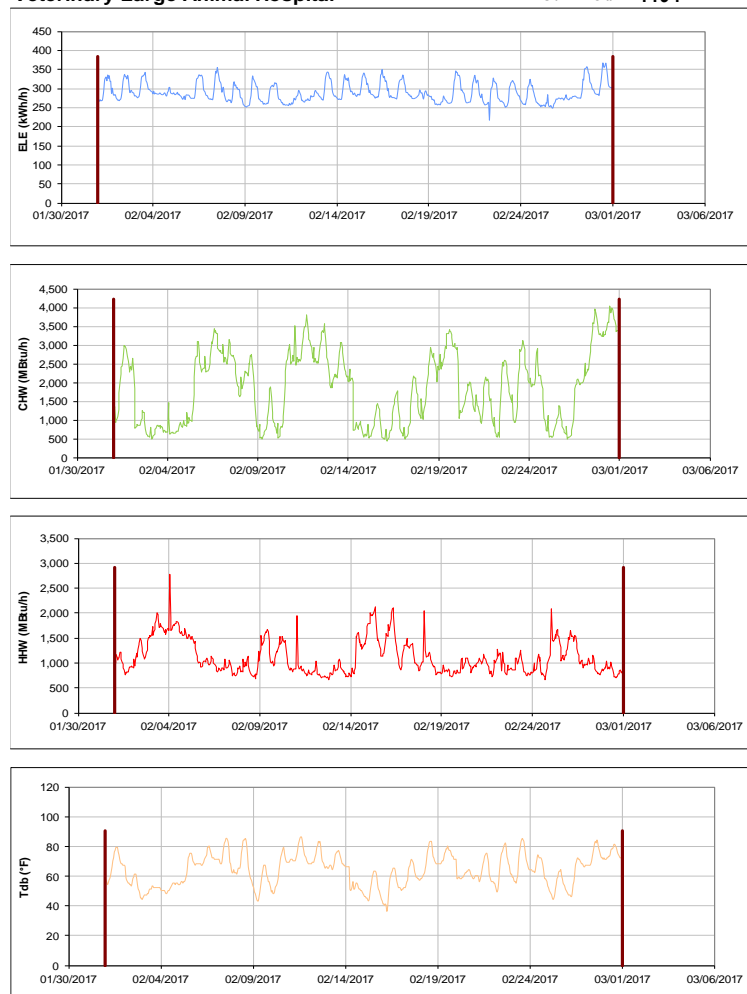


Figure III-129 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Large Animal Hospital during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Research Building

TAMU / BLDG #: 1197

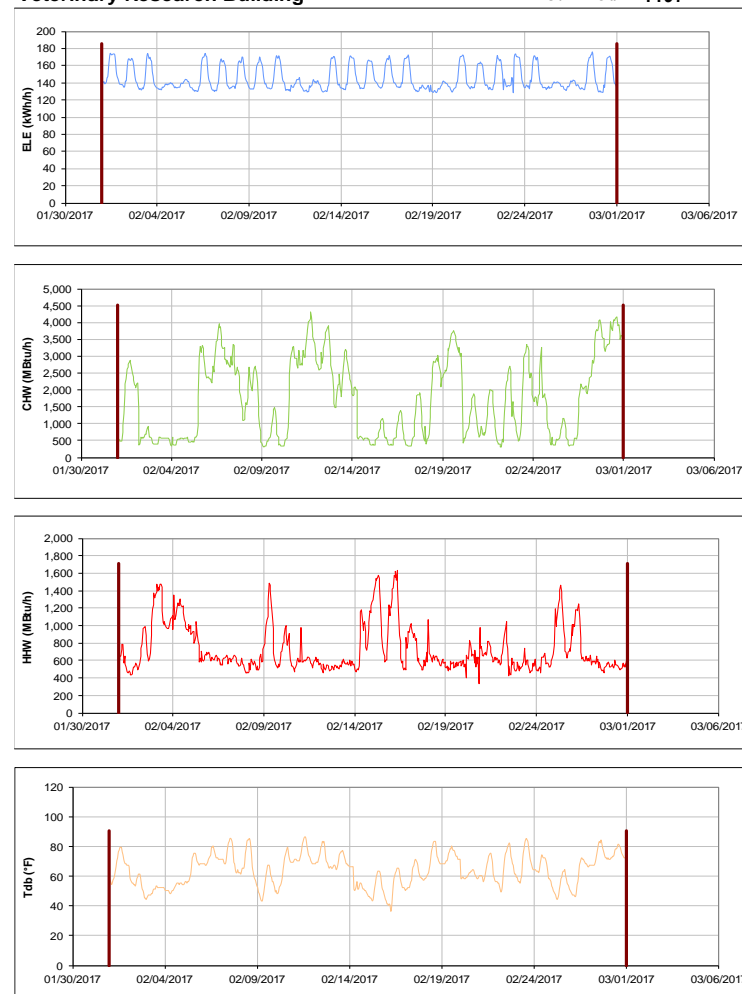


Figure III-130 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Research Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Buzbee Leadership Learning Center

TAMU / BLDG #: 1402

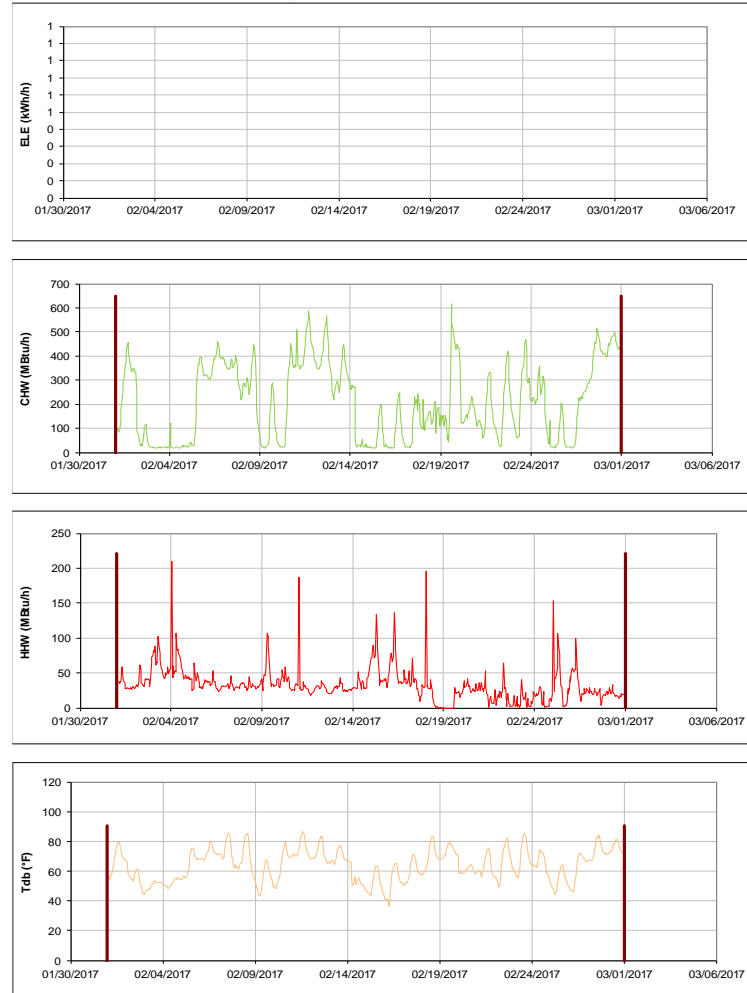


Figure III-131 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Buzbee Leadership Learning Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

H. Grady Ash, Jr. '58 Leadership Learning Center TAMU / BLDG #: 1403

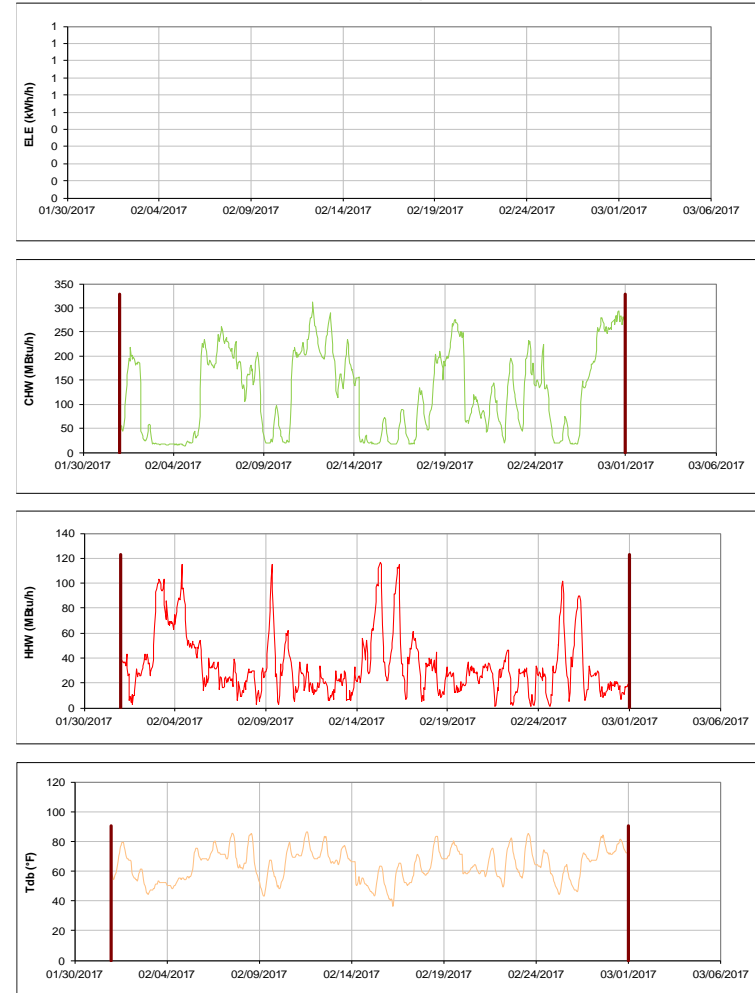


Figure III-132 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for H. Grady Ash, Jr. '58 Leadership Learning Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Plank LLC

TAMU / BLDG #: 1404

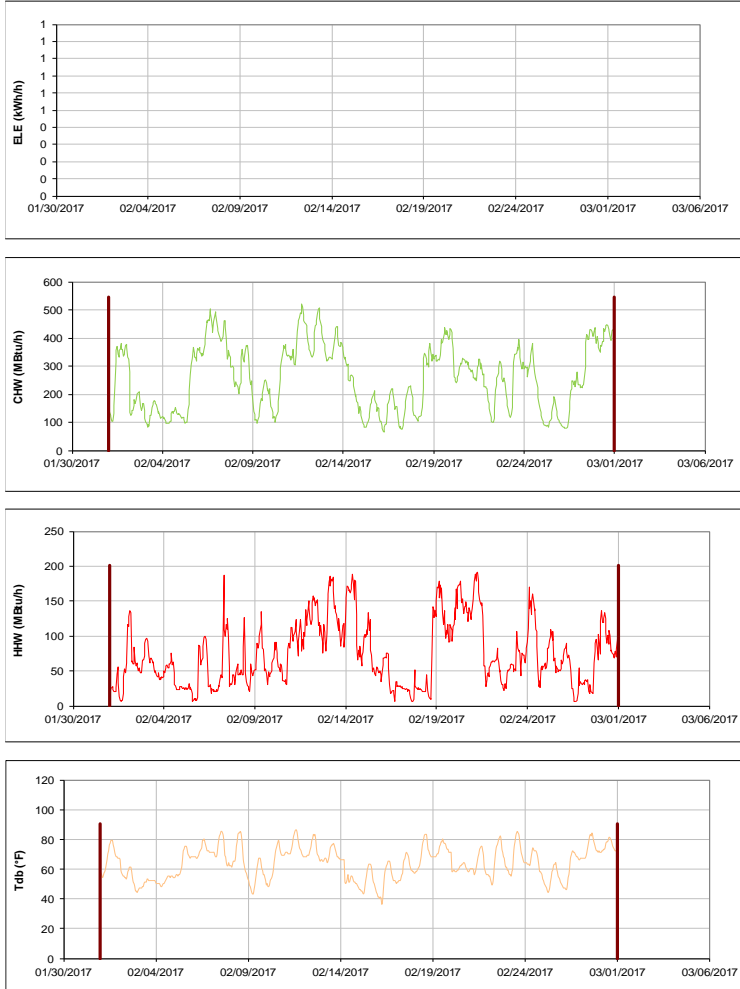


Figure III-133 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Plank LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Ash II LLC

TAMU / BLDG #: 1405

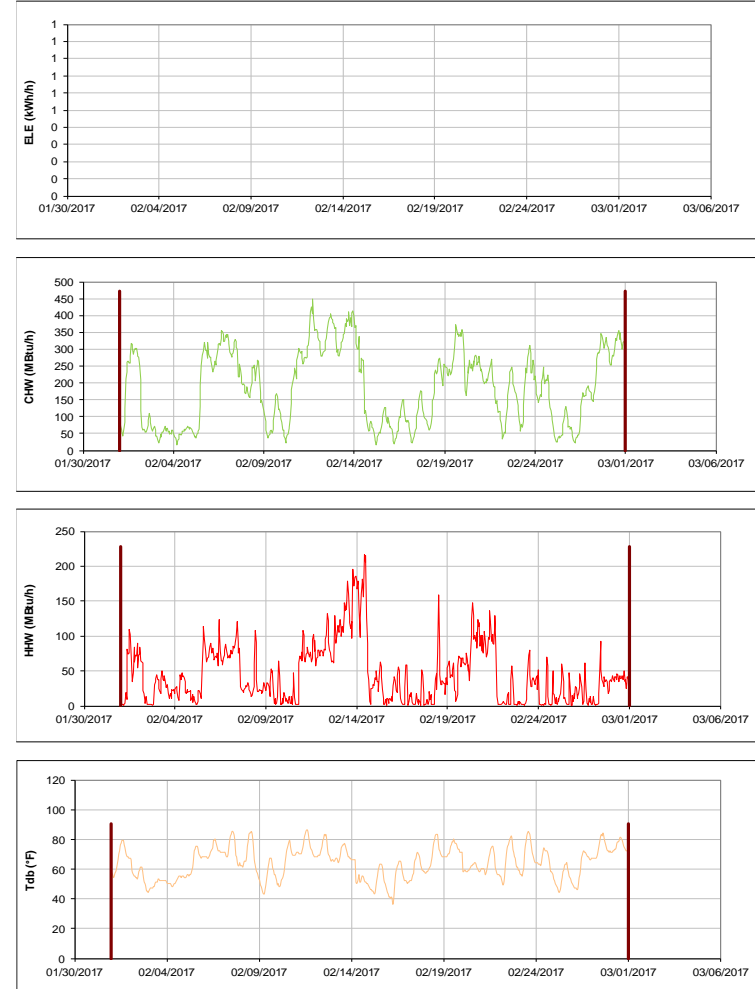


Figure III-134 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Ash II LLC during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Hullabaloo Residence Hall

TAMU / BLDG #: 1416



Figure III-135 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hullabaloo Residence Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - Laundry at the Gardens

TAMU / BLDG #: 1450

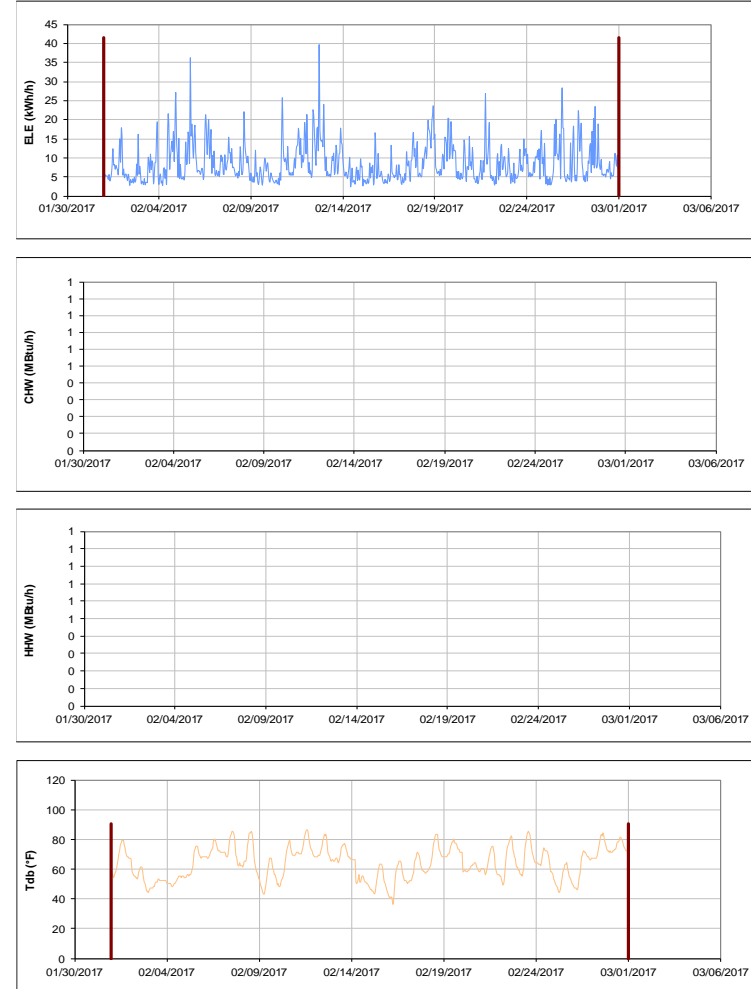


Figure III-136 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - Laundry at the Gardens during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

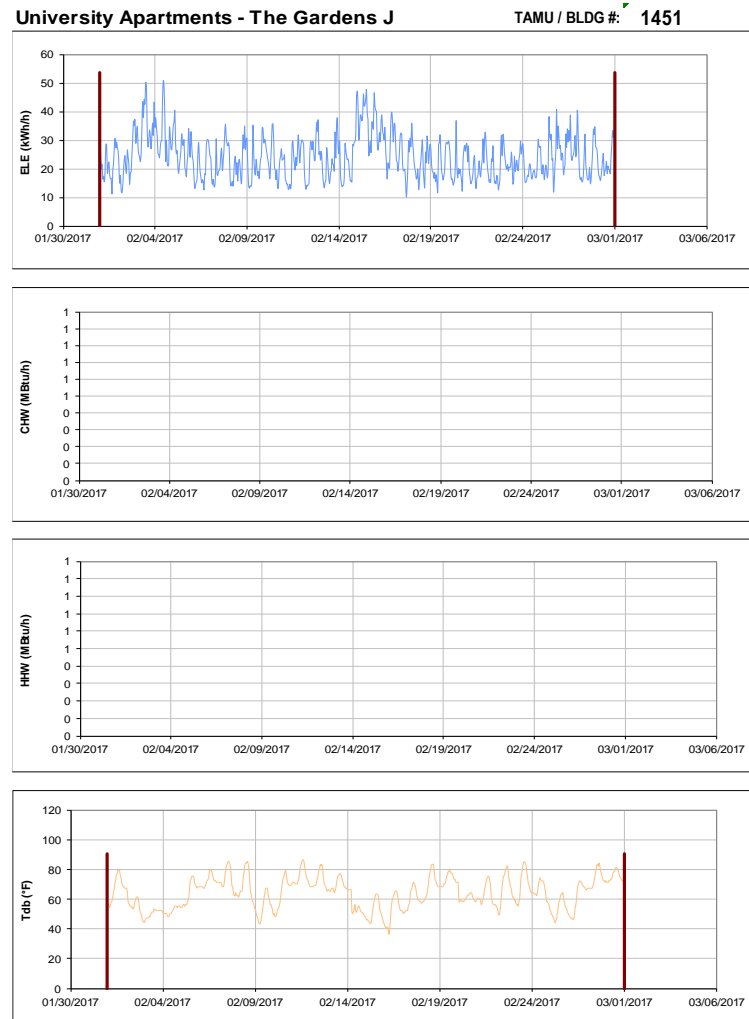


Figure III-137 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens J during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

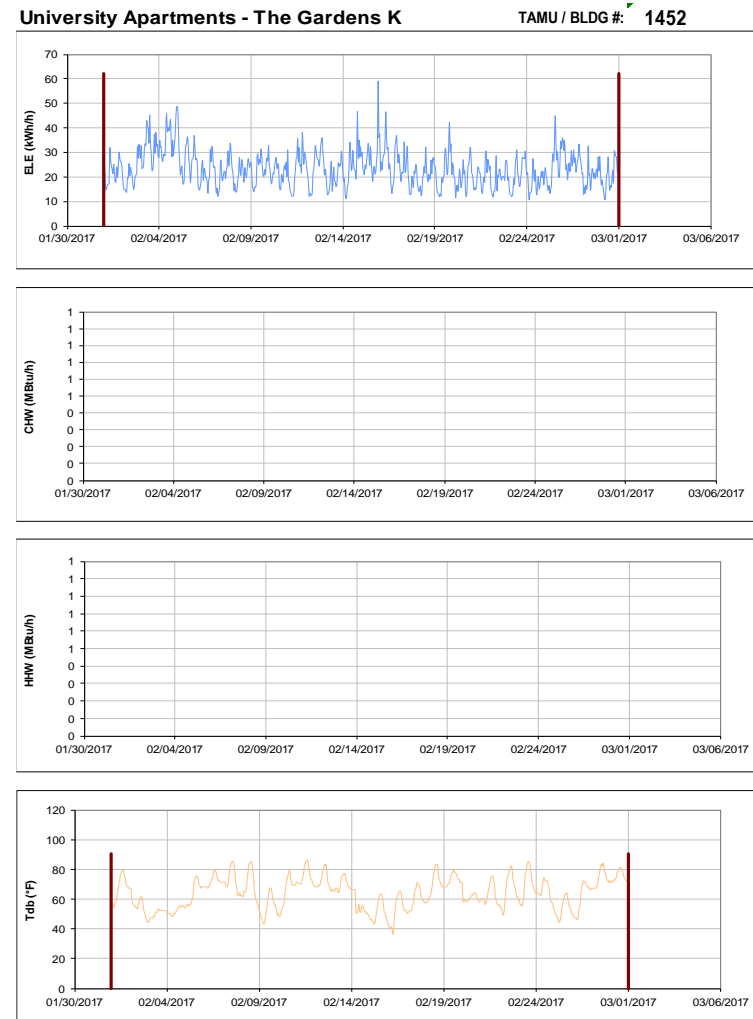


Figure III-138 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens K during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens L

TAMU / BLDG #: 1453

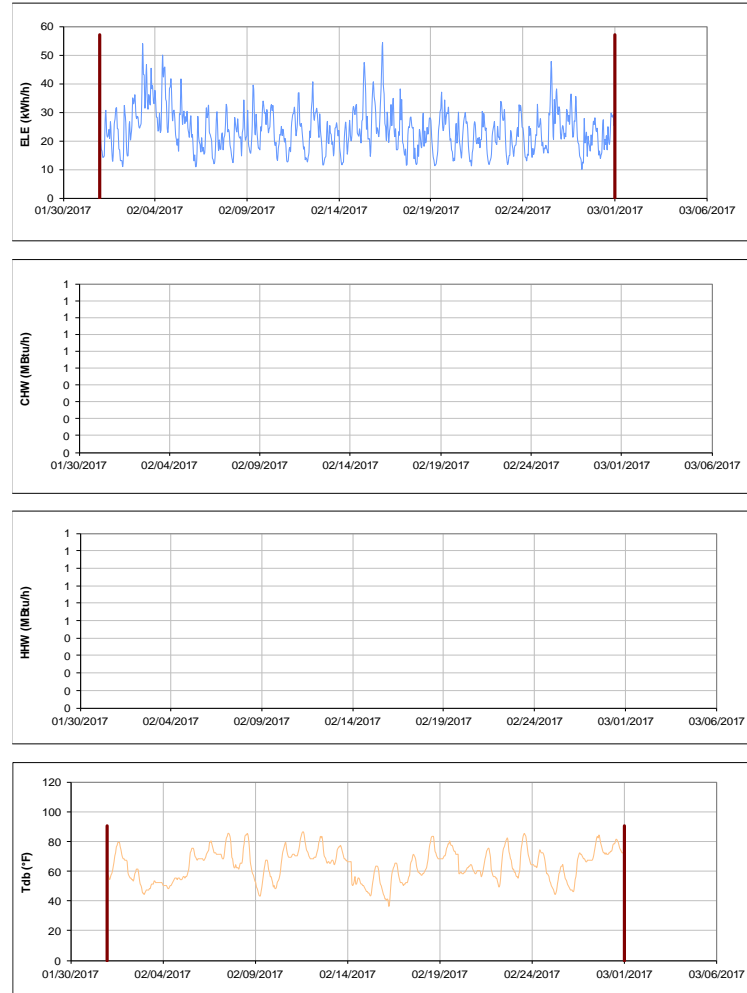


Figure III-139 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens L during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens F

TAMU / BLDG #: 1454

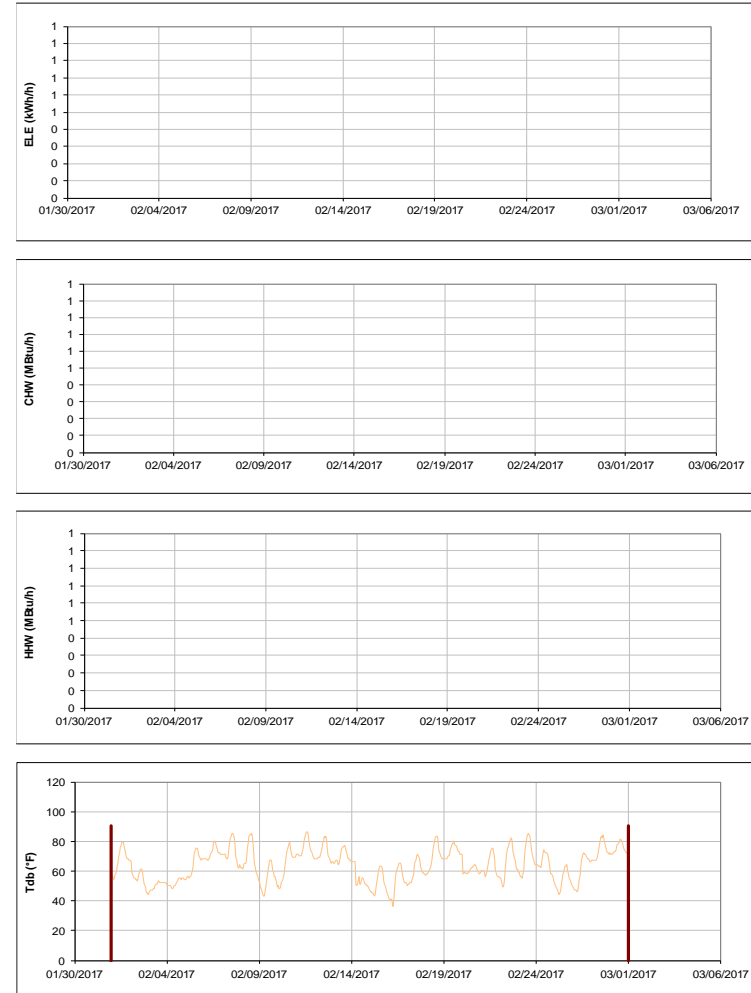


Figure III-140 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens F during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens G

TAMU / BLDG #: 1455

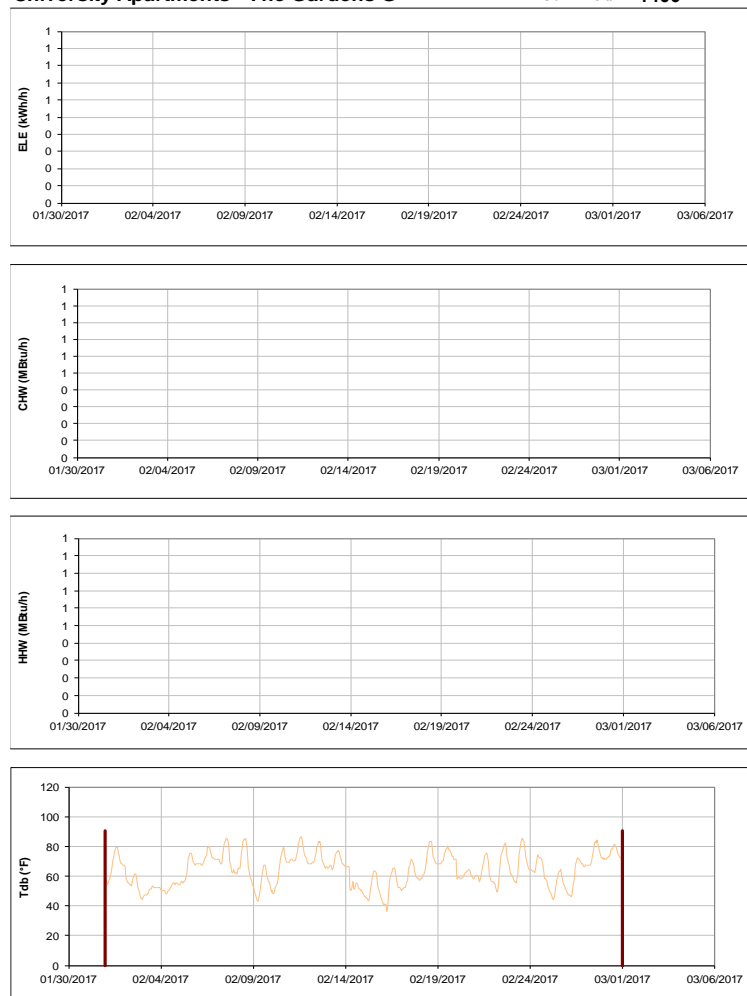


Figure III-141 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens G during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens H

TAMU / BLDG #: 1456

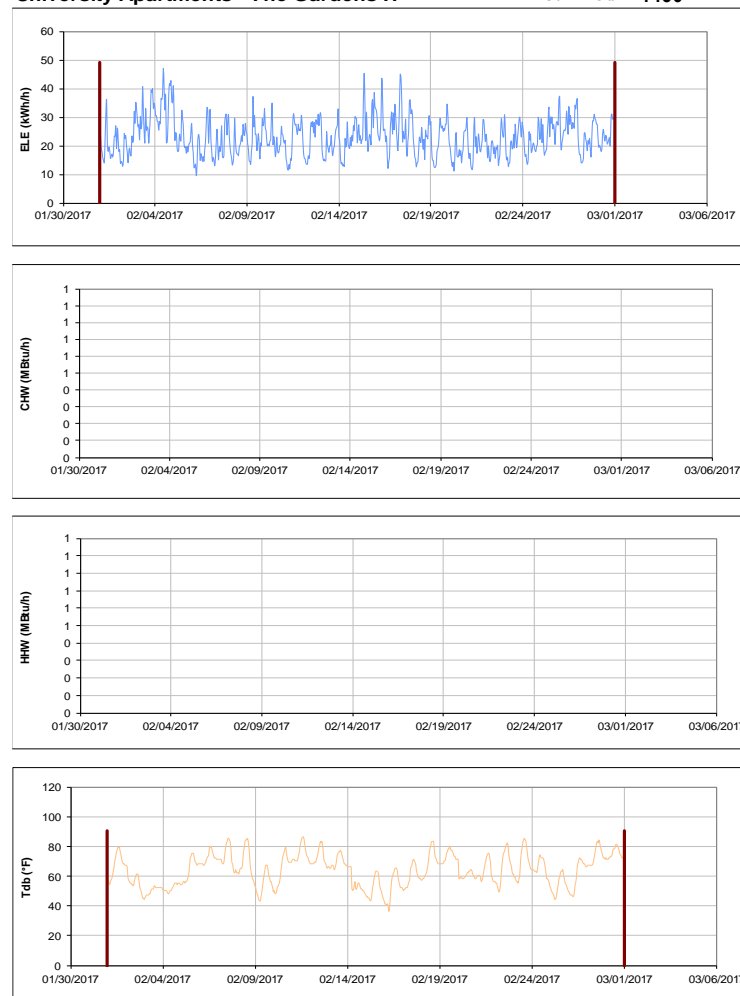


Figure III-142 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens H during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens M

TAMU / BLDG #: 1457

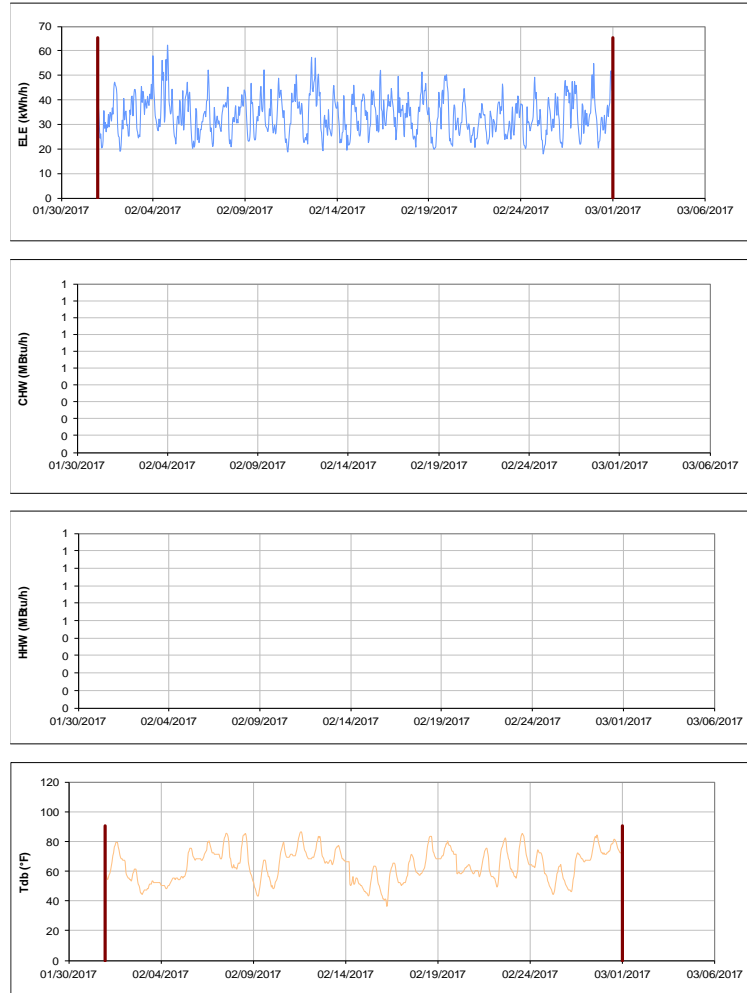


Figure III-143 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens M during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens N

TAMU / BLDG #: 1458

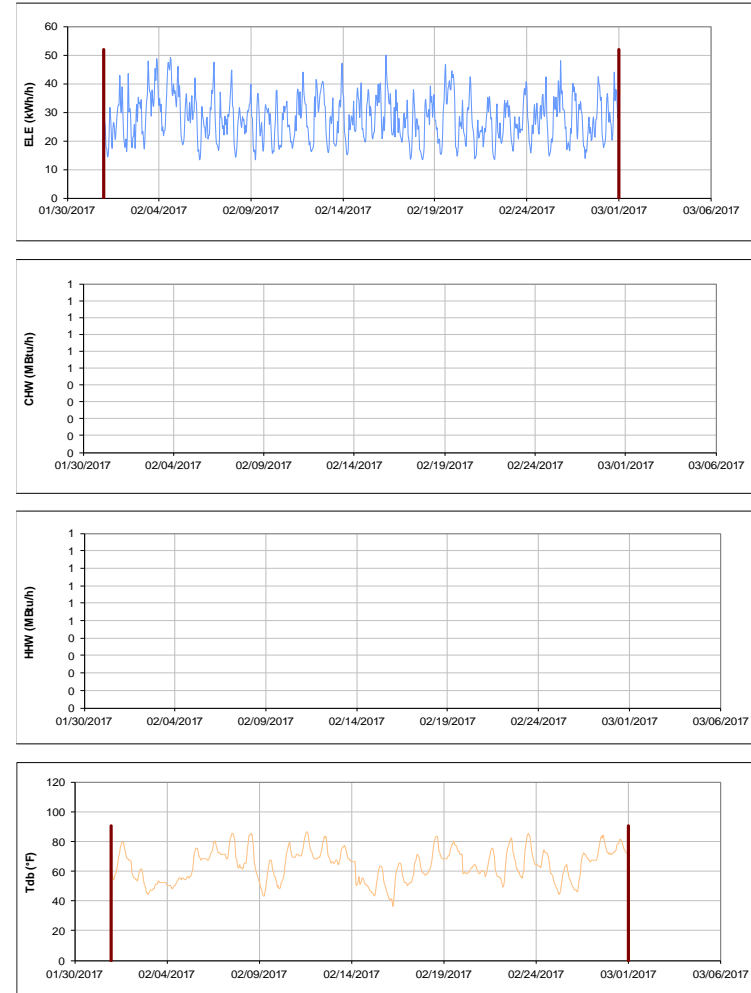


Figure III-144 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens N during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

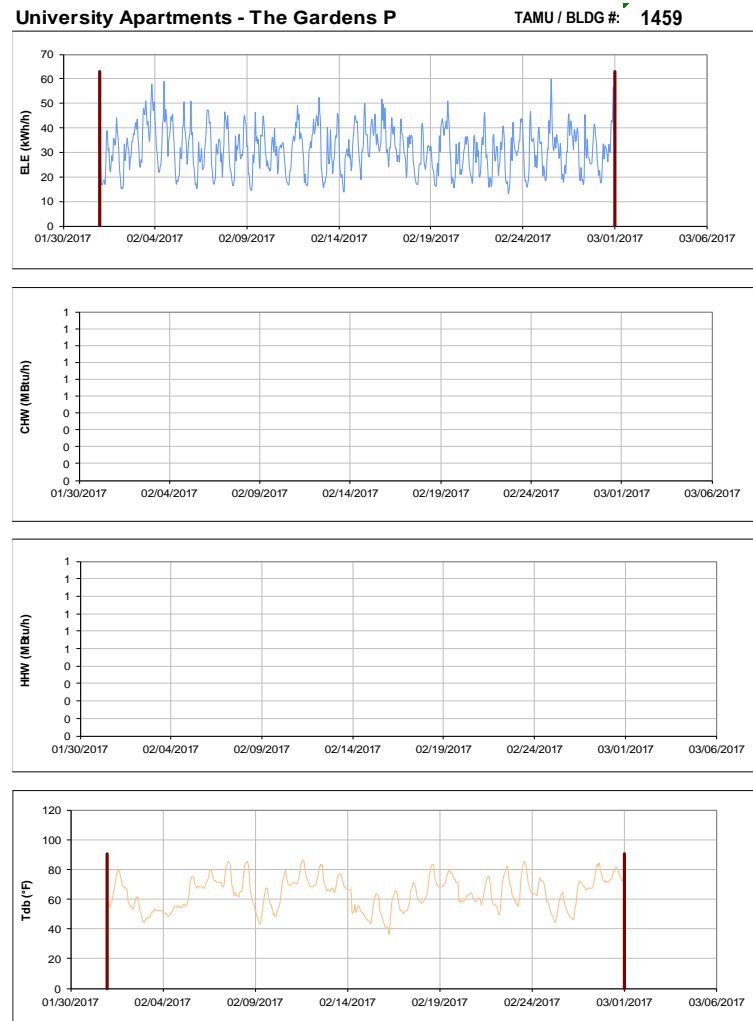


Figure III-145 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens P during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

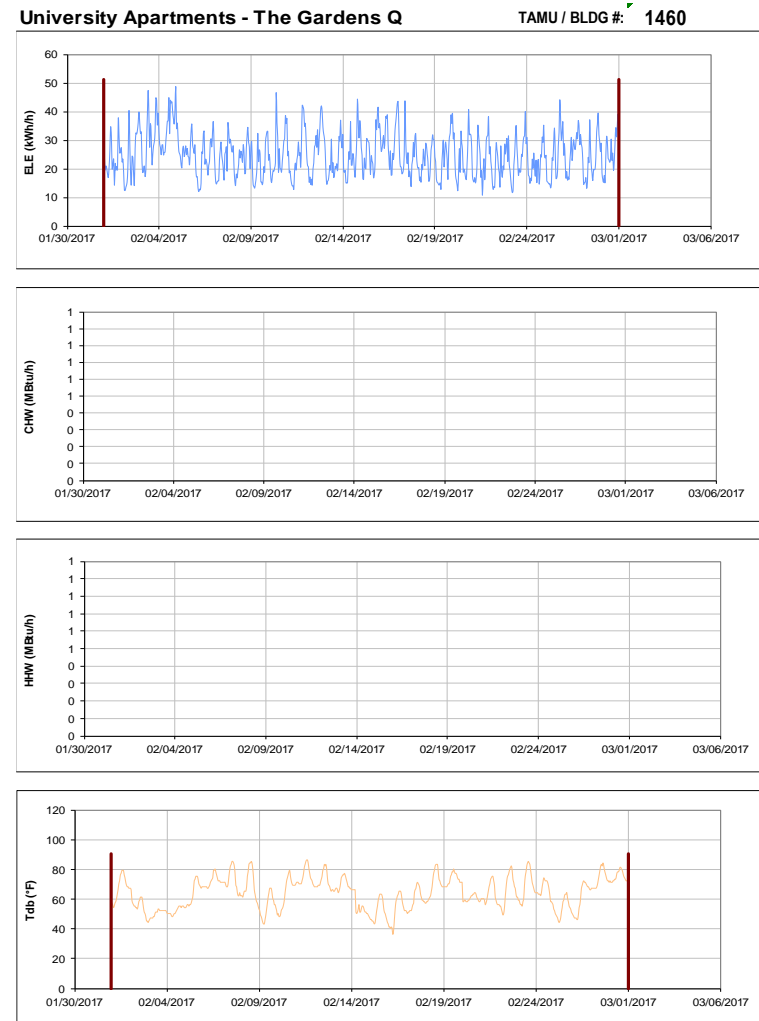


Figure III-146 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens Q during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Utilities & Energy Services Business Office

TAMU / BLDG #: 1497

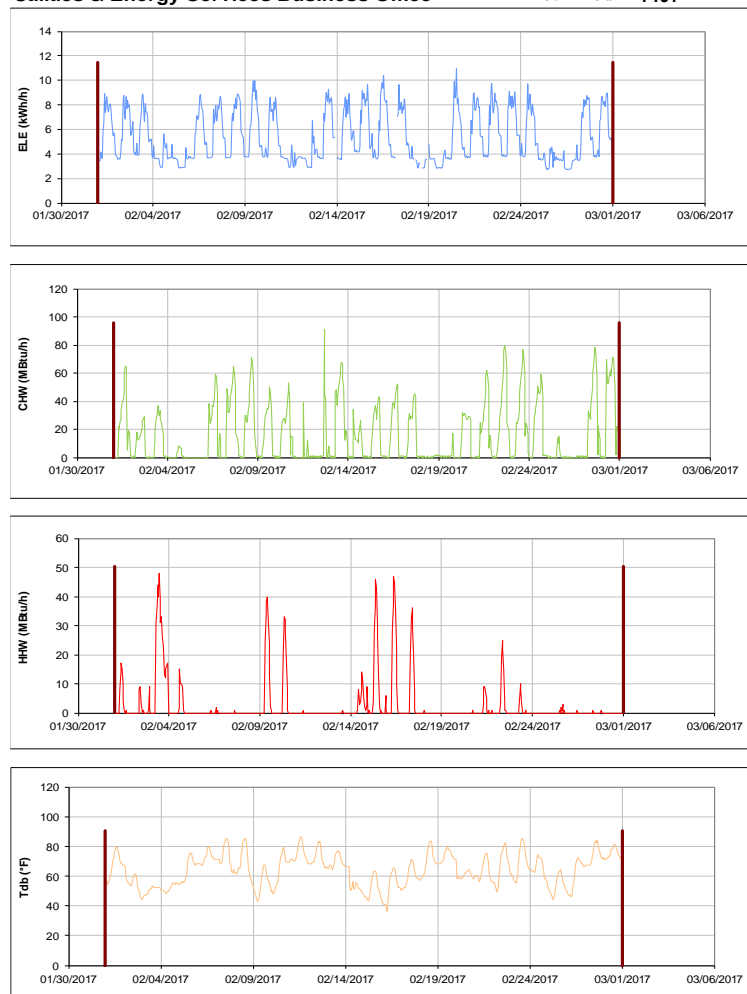


Figure III-147 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities & Energy Services Business Office during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Kleberg Center

TAMU / BLDG #: 1501

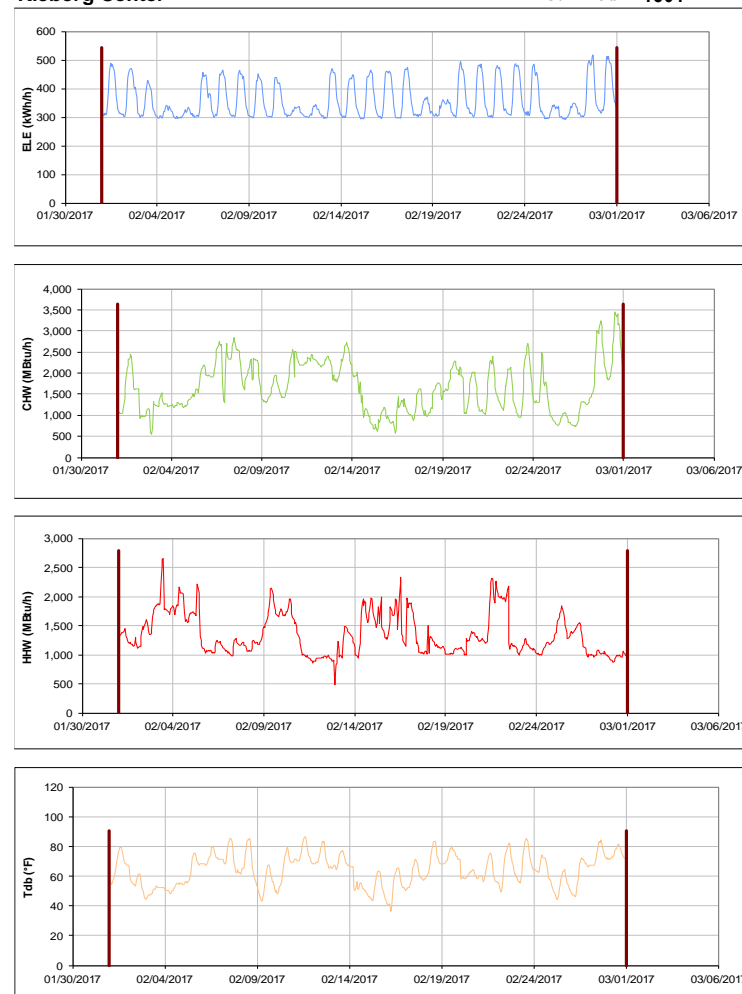


Figure III-148 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kleberg Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX



Figure III-149 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heep Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

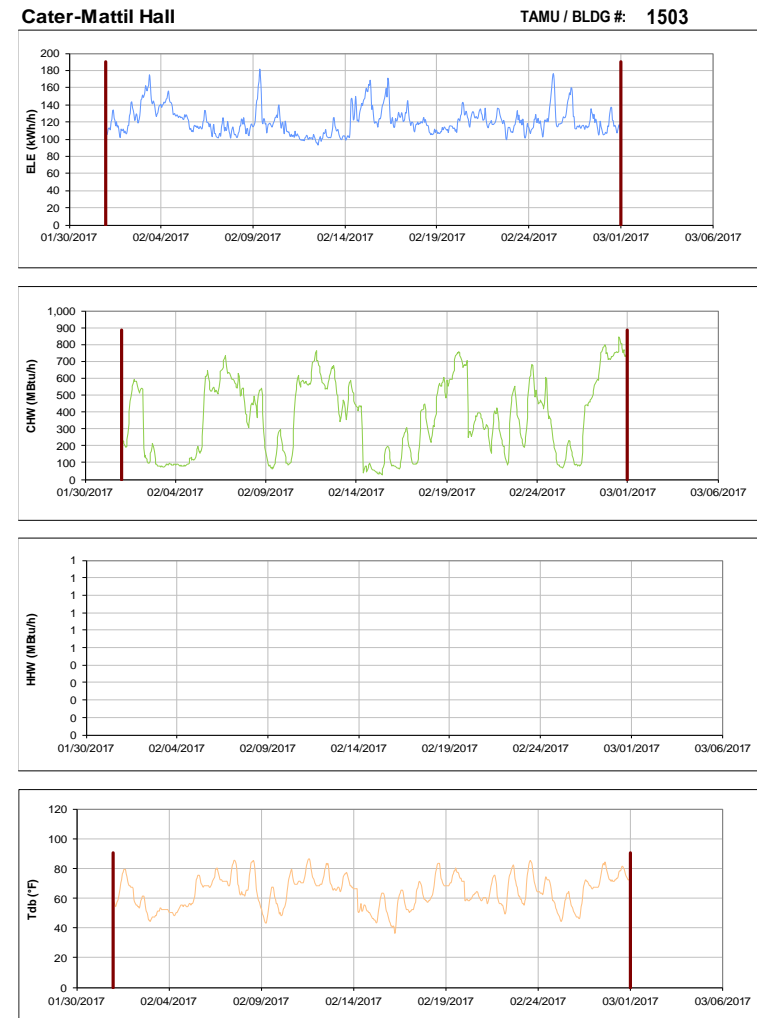


Figure III-150 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Cater-Mattil Hall during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Reynolds Medical Sciences Building

TAMU / BLDG #: 1504

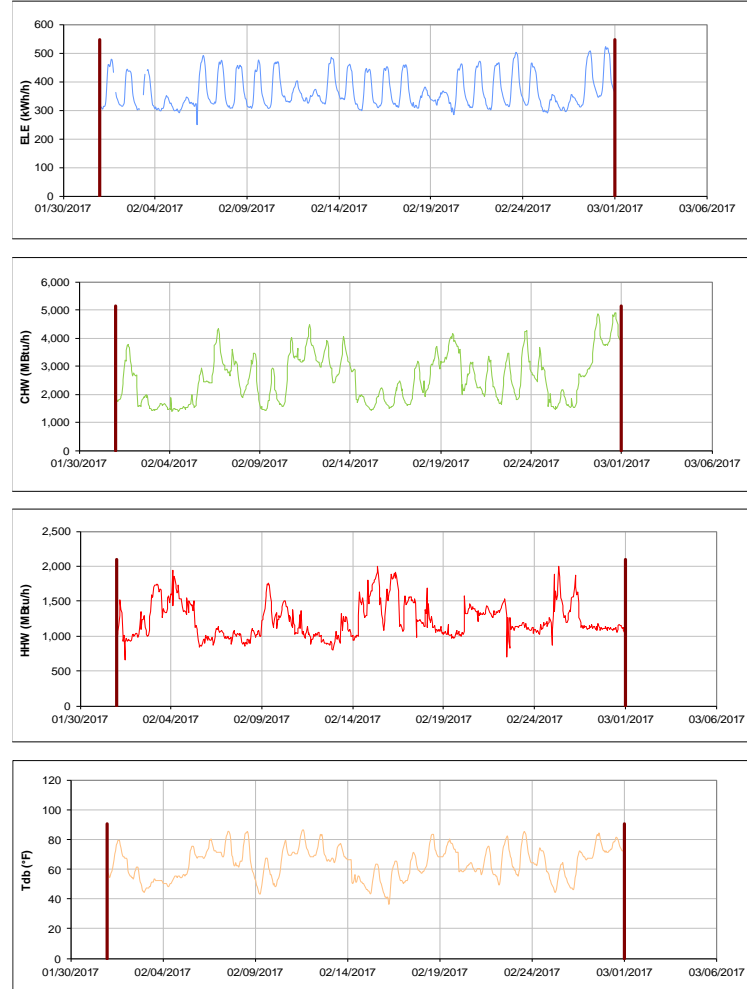


Figure III-151 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reynolds Medical Sciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Rosenthal Meat Science & Technology Center

TAMU / BLDG #: 1505

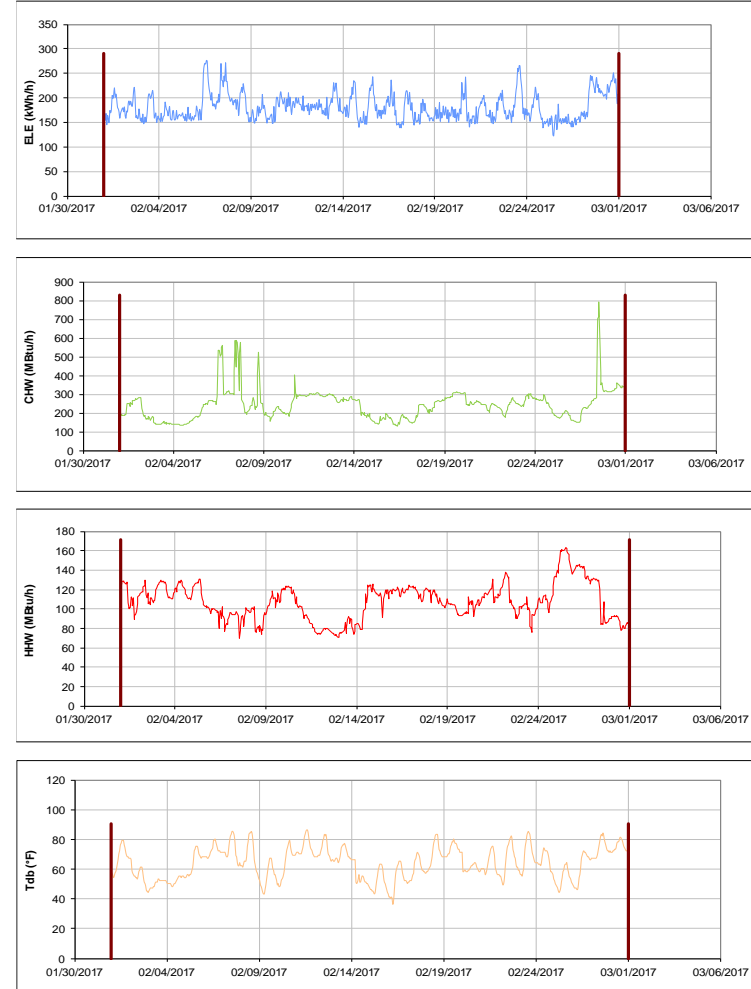


Figure III-152 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rosenthal Meat Science & Technology Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Horticulture-Forest Science Building

TAMU / BLDG #: 1506

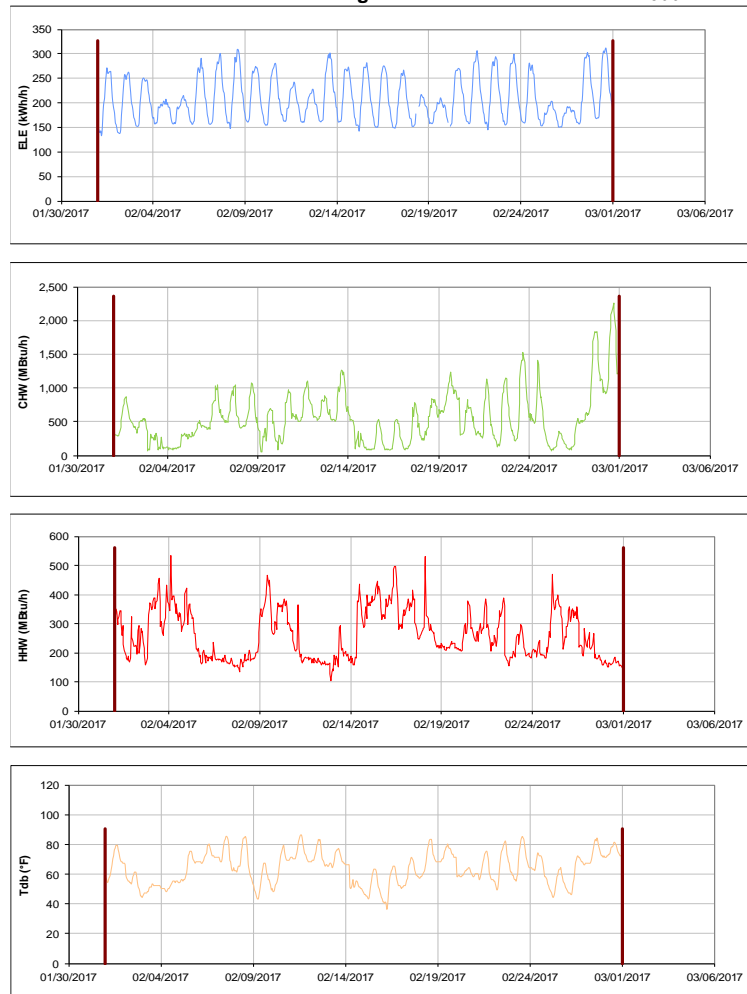


Figure III-153 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Horticulture-Forest Science Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Biochemistry-Biophysics Building

TAMU / BLDG #: 1507



Figure III-154 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biochemistry-Biophysics Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Price Hobgood Ag. Engineering Research Lab TAMU / BLDG #: 1508

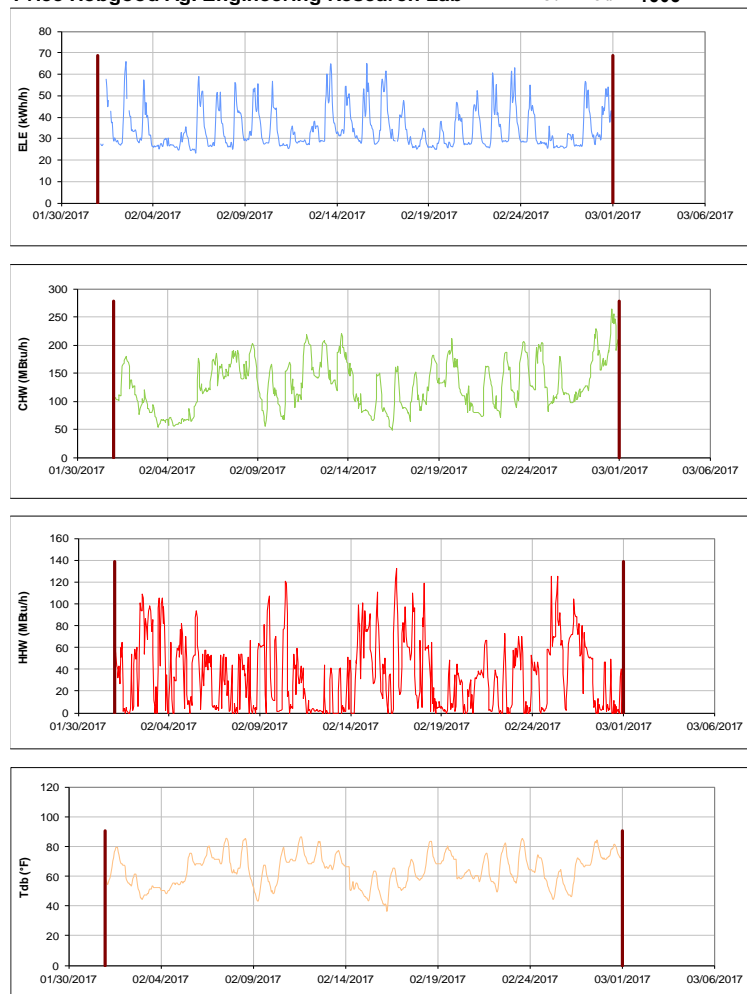


Figure III-155 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Price Hobgood Ag. Engineering Research Lab during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Medical Sciences Library TAMU / BLDG #: 1509

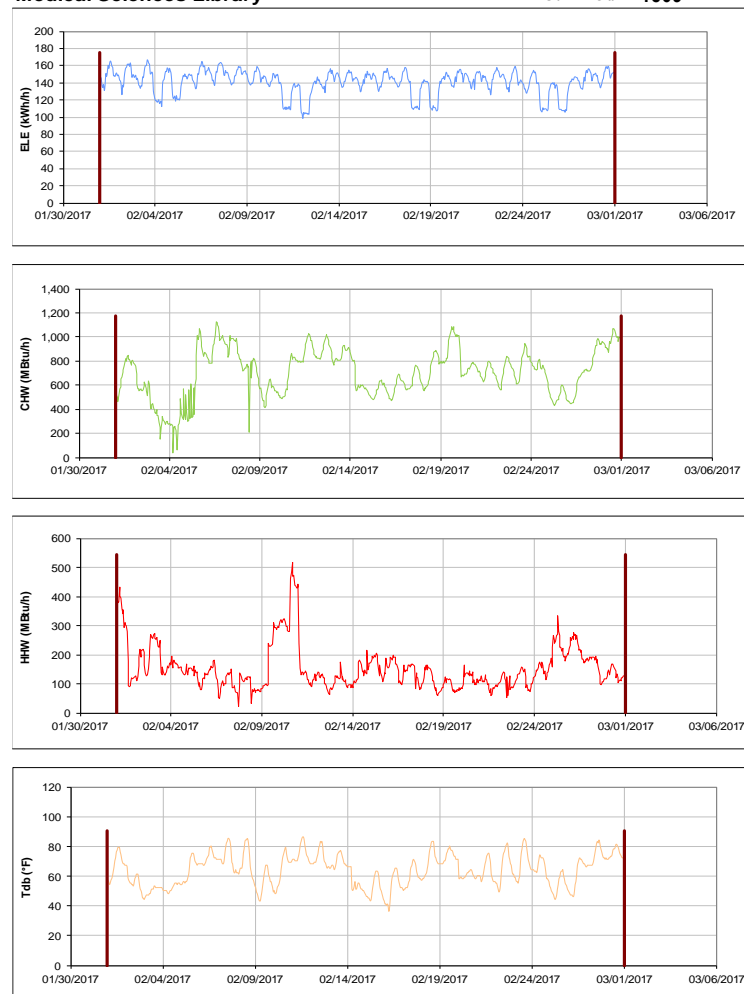


Figure III-156 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Medical Sciences Library during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Wehner Building

TAMU / BLDG #: 1510



Figure III-157 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wehner Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

West Campus Library Facility

TAMU / BLDG #: 1511

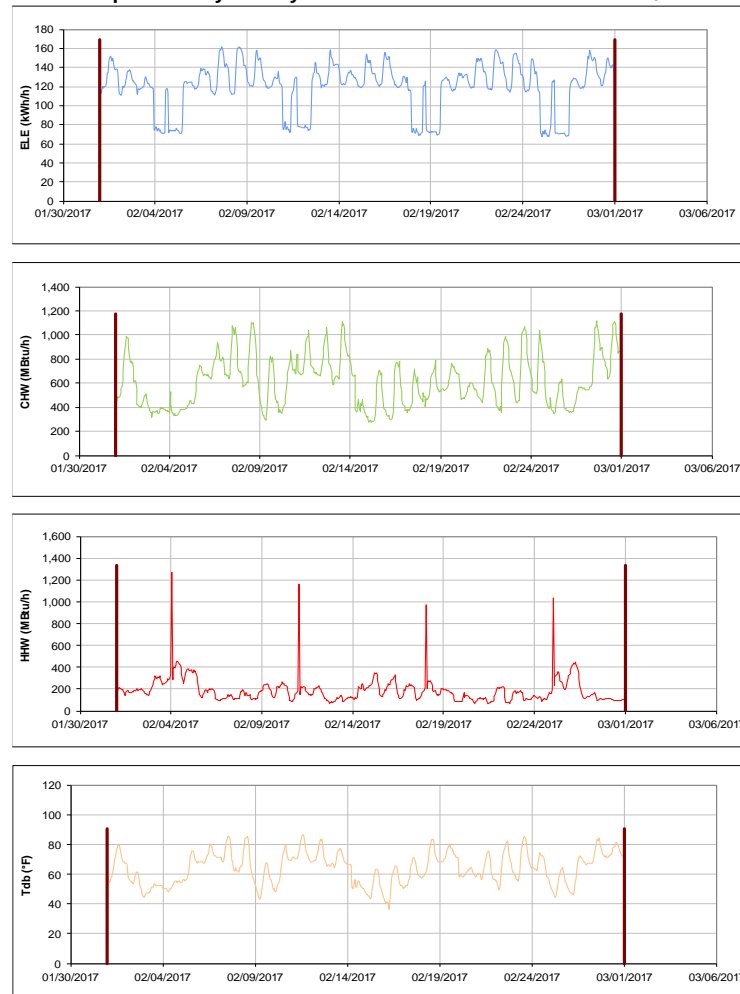


Figure III-158 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for West Campus Library Facility during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Southern Crop Improvement Greenhouse

TAMU / BLDG #: 1512

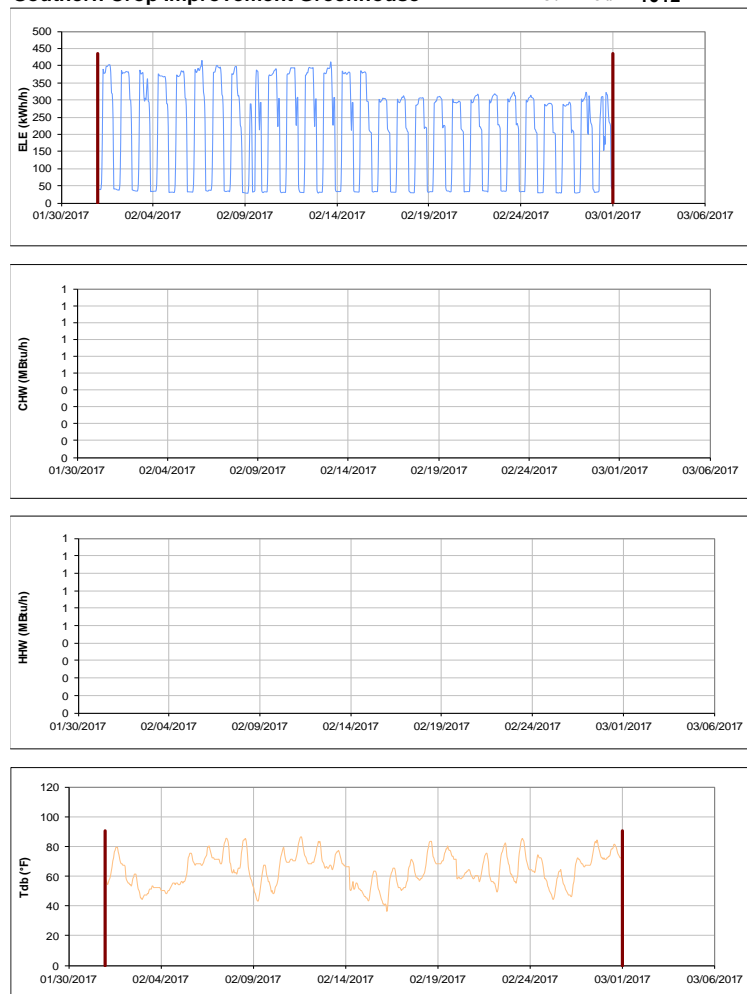


Figure III-159 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Southern Crop Improvement Greenhouse during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Borlaug Center for Southern Crop Improvement

TAMU / BLDG #: 1513

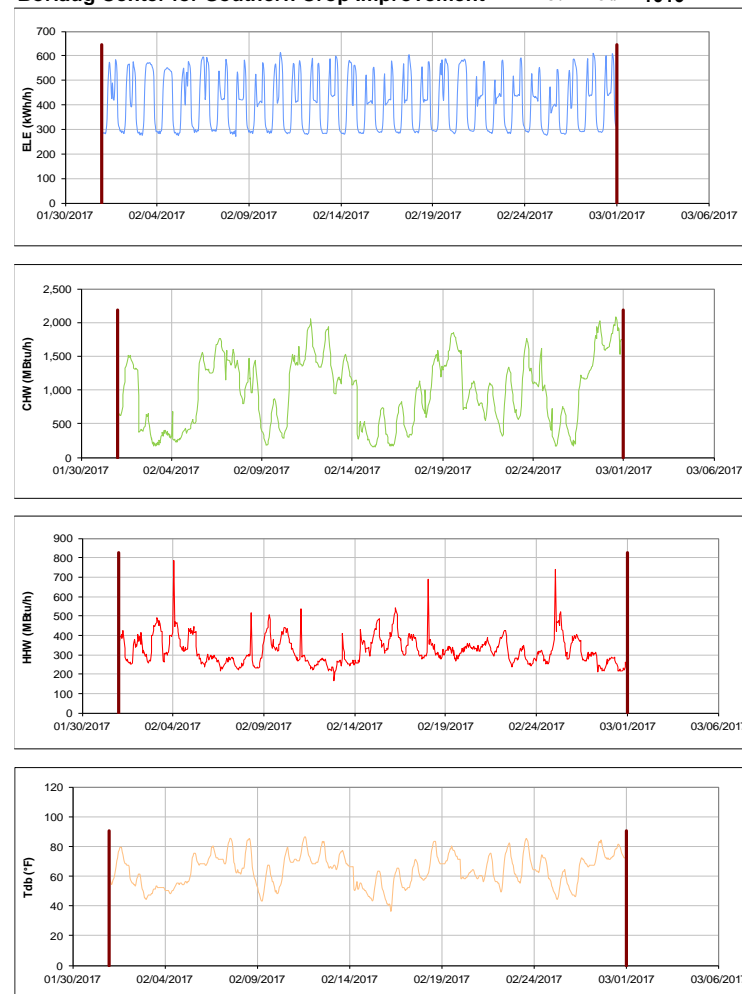


Figure III-160 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Borlaug Center for Southern Crop Improvement during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

TX School of Rural Public Health

TAMU / BLDG #: 1518

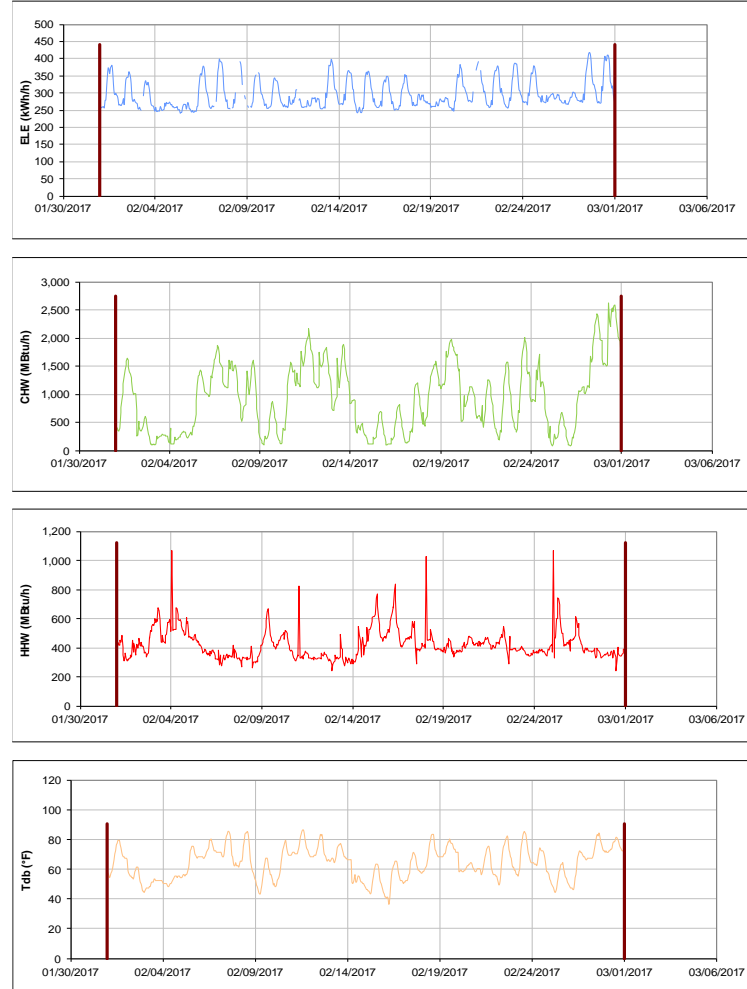


Figure III-161 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TX School of Rural Public Health during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Nuclear Magnetic Resonance Facility

TAMU / BLDG #: 1525

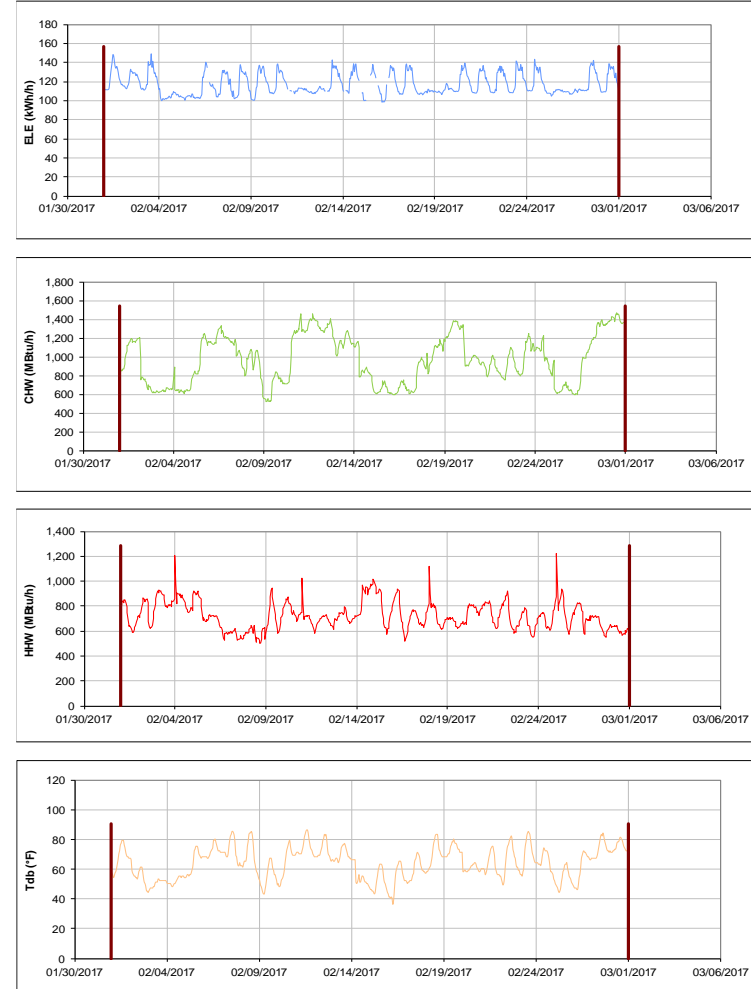


Figure III-162 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Nuclear Magnetic Resonance Facility during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

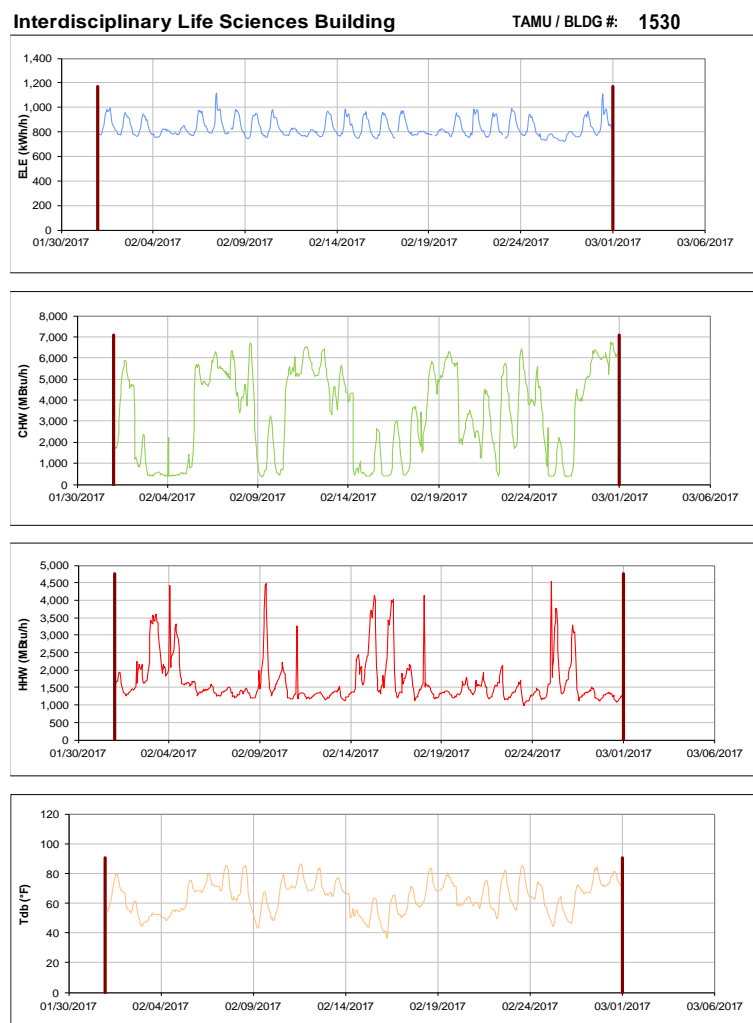


Figure III-163 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Interdisciplinary Life Sciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX



Figure III-164 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Agriculture and Life Sciences Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX



Figure III-165 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for AgriLife Services Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

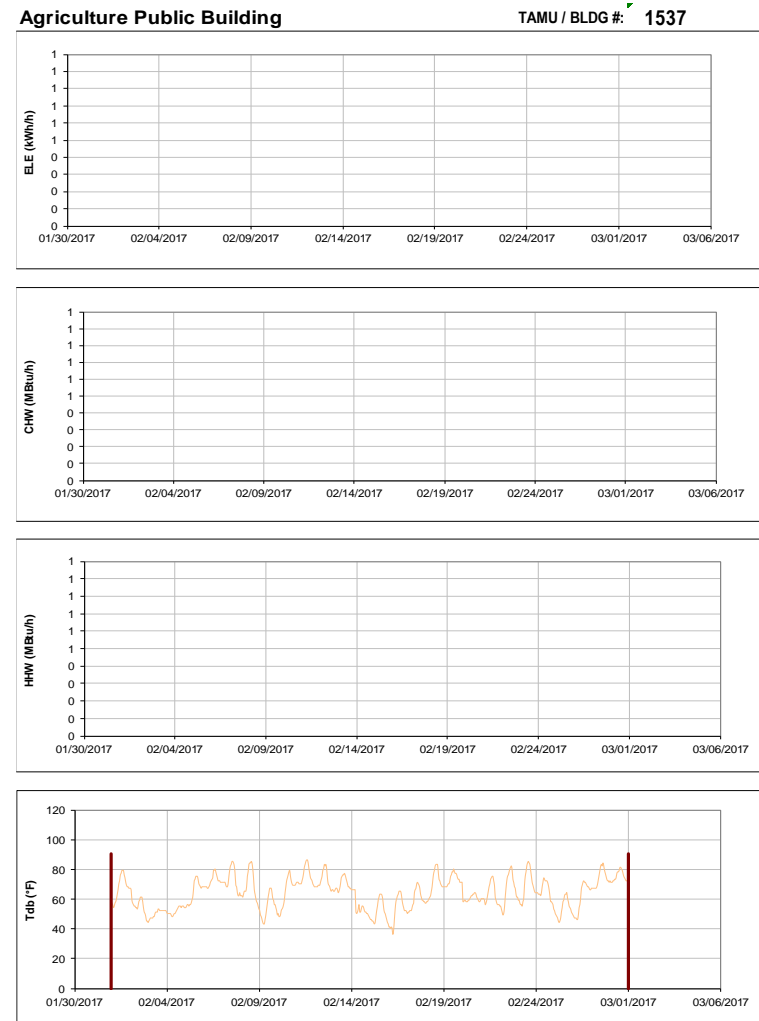


Figure III-166 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Agriculture Public Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Agriculture Program Visitors Center

TAMU / BLDG #: 1538



Figure III-167 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Agriculture Program Visitors Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Physical Education Activity Program Building

TAMU / BLDG #: 1540

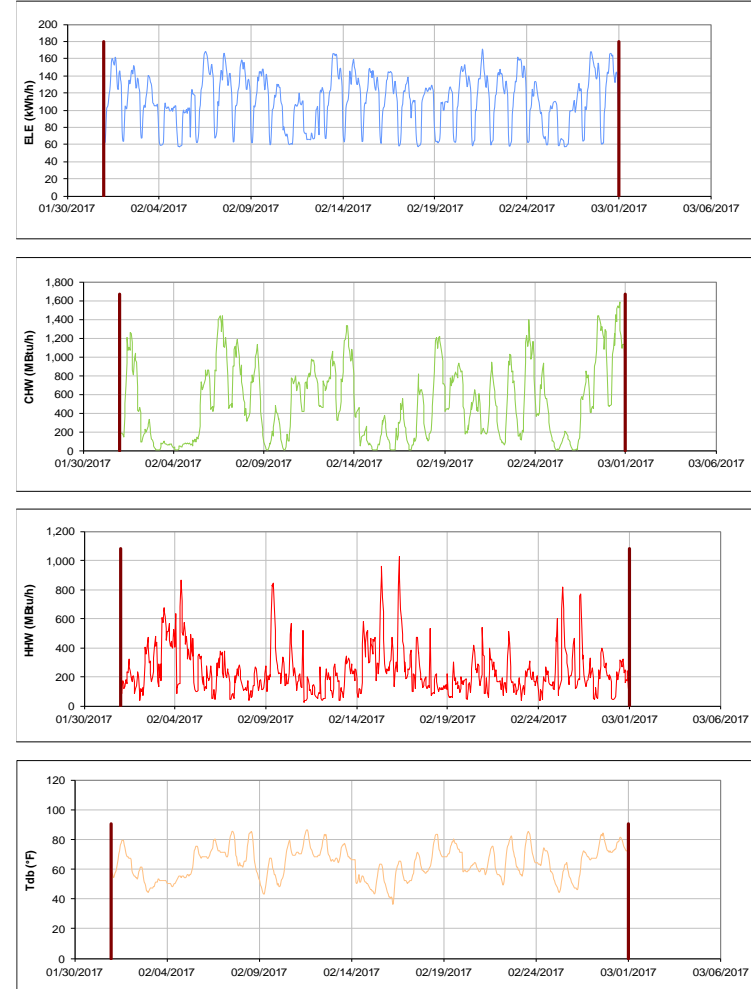


Figure III-168 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Physical Education Activity Program Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

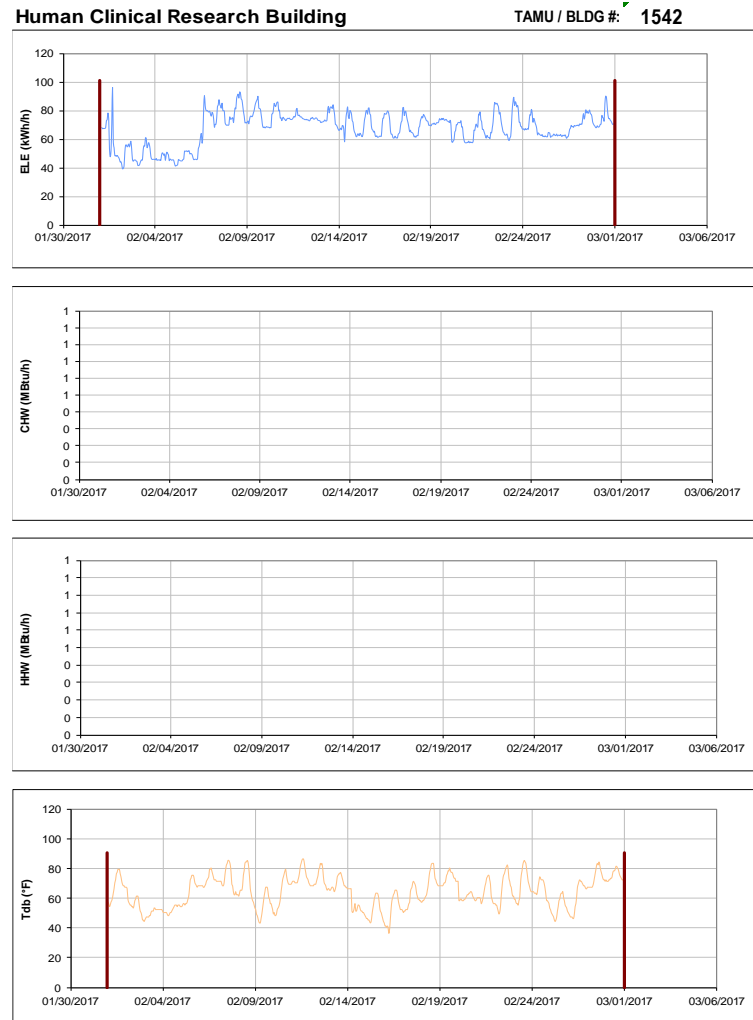


Figure III-169 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Human Clinical Research Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

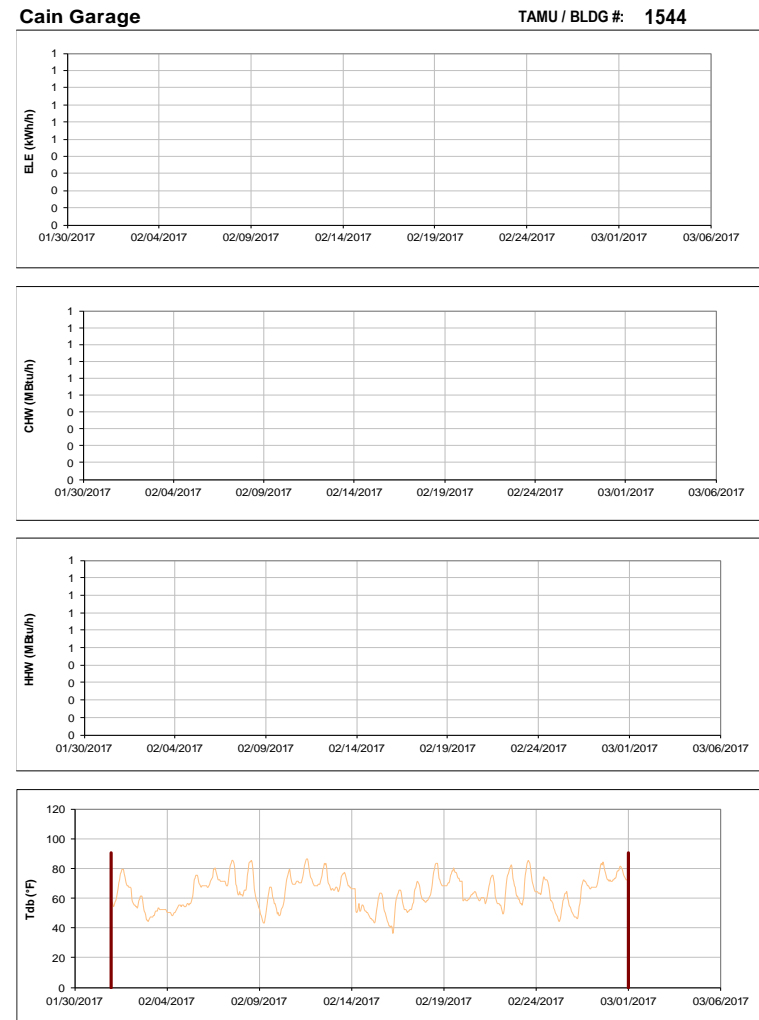


Figure III-170 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Cain Garage during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Olsen Field at Bluebell Park

TAMU / BLDG #: 1550

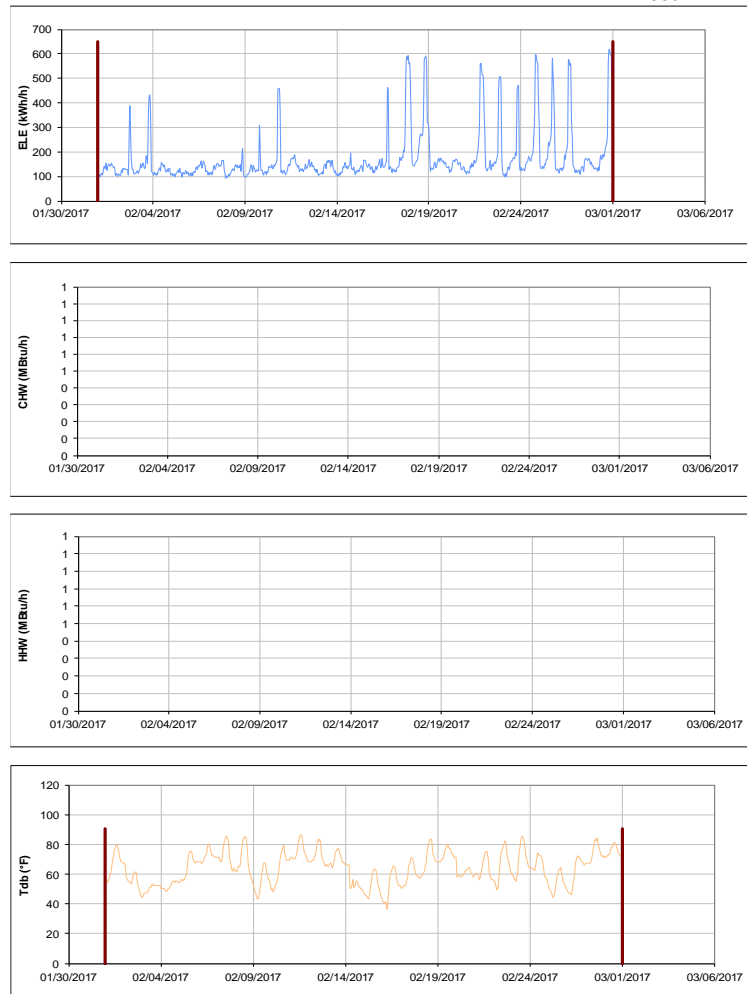


Figure III-171 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Olsen Field at Bluebell Park during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Reed Arena and Cox-McFerrin Center

TAMU / BLDG #: 554-1558

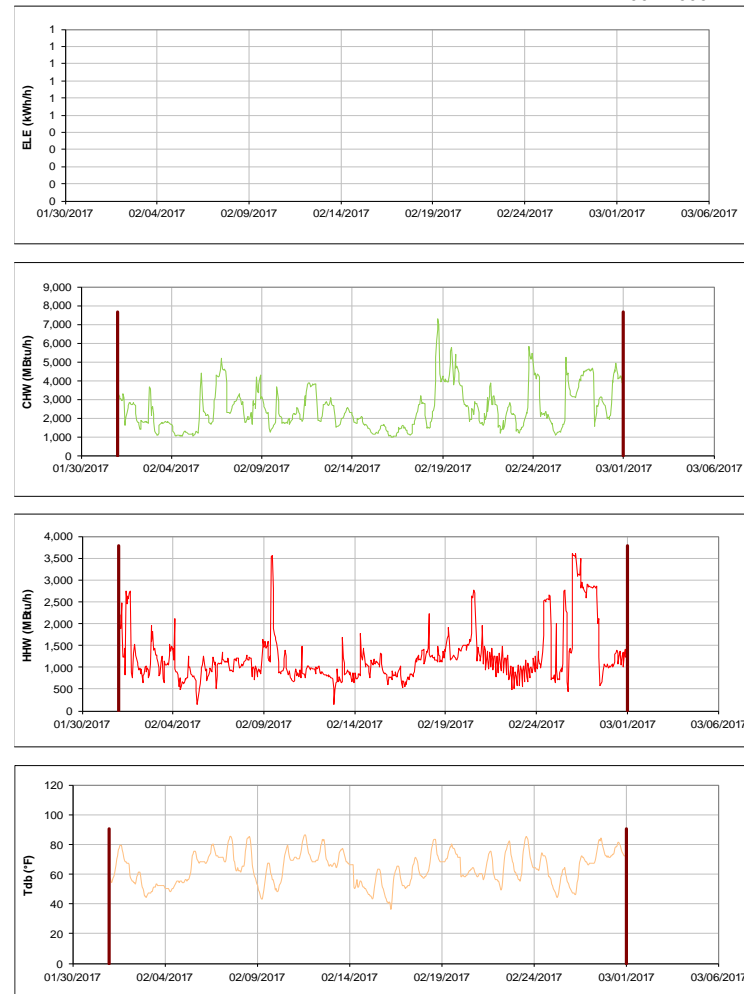


Figure III-172 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed Arena and Cox-McFerrin Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Cox-McFerrin Center for Aggie Basketball

TAMU / BLDG #: 1558

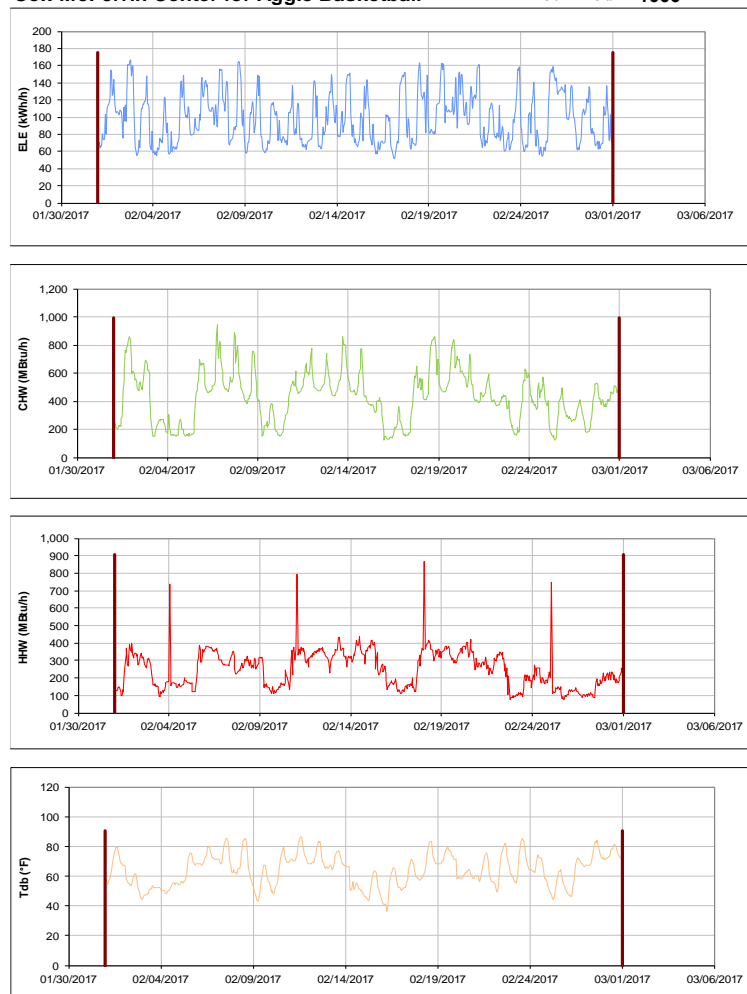


Figure III-173 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Cox-McFerrin Center for Aggie Basketball during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

West Campus Parking Garage

TAMU / BLDG #: 1559



Figure III-174 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for West Campus Parking Garage during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Student Recreation Center

TAMU / BLDG #: 1560

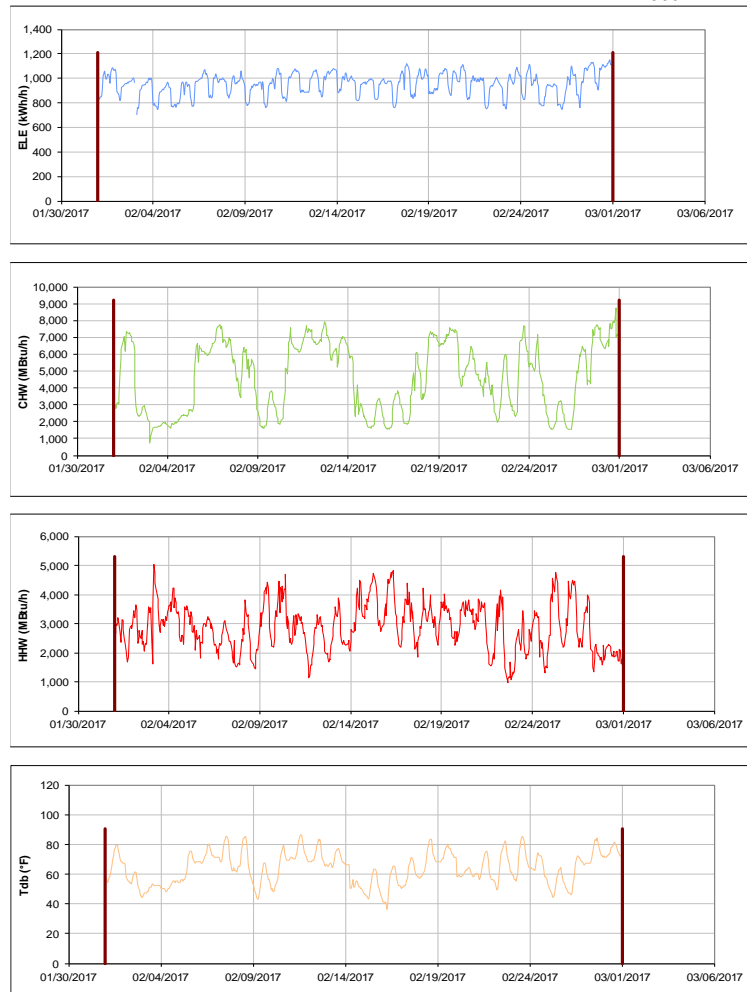


Figure III-175 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Student Recreation Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

White Creek Apartment 1 and White Creek Apts Activity Center

TAMU / BLDG #: 589-1590

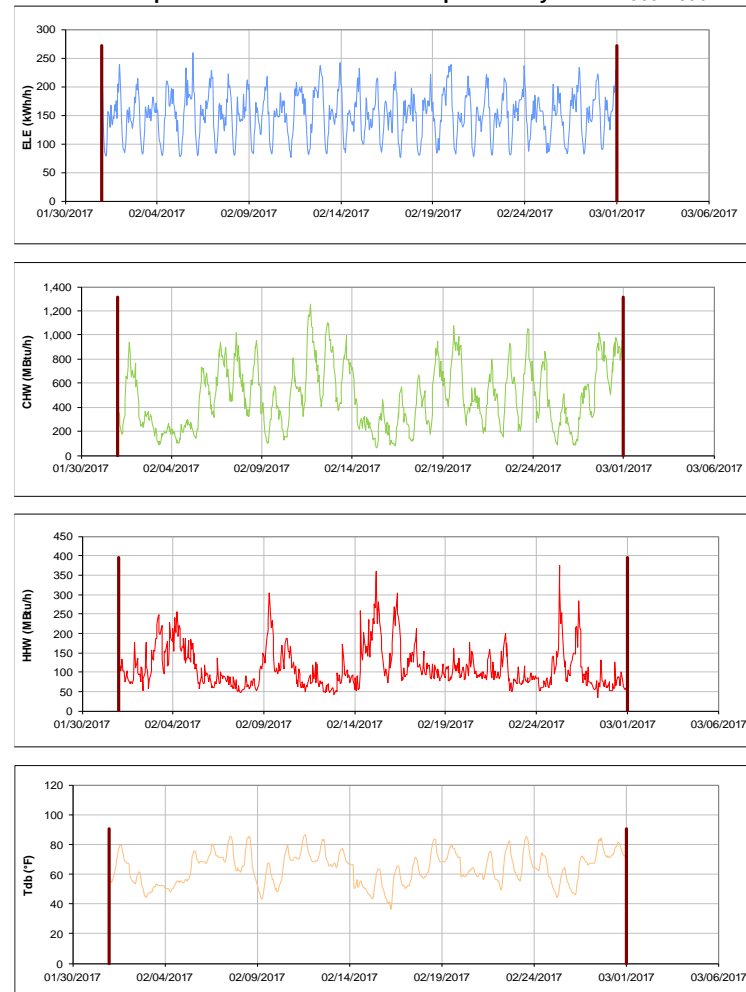


Figure III-176 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 1 and White Creek Apts Activity Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station,

White Creek Apartment 2

TAMU / BLDG #: 1591

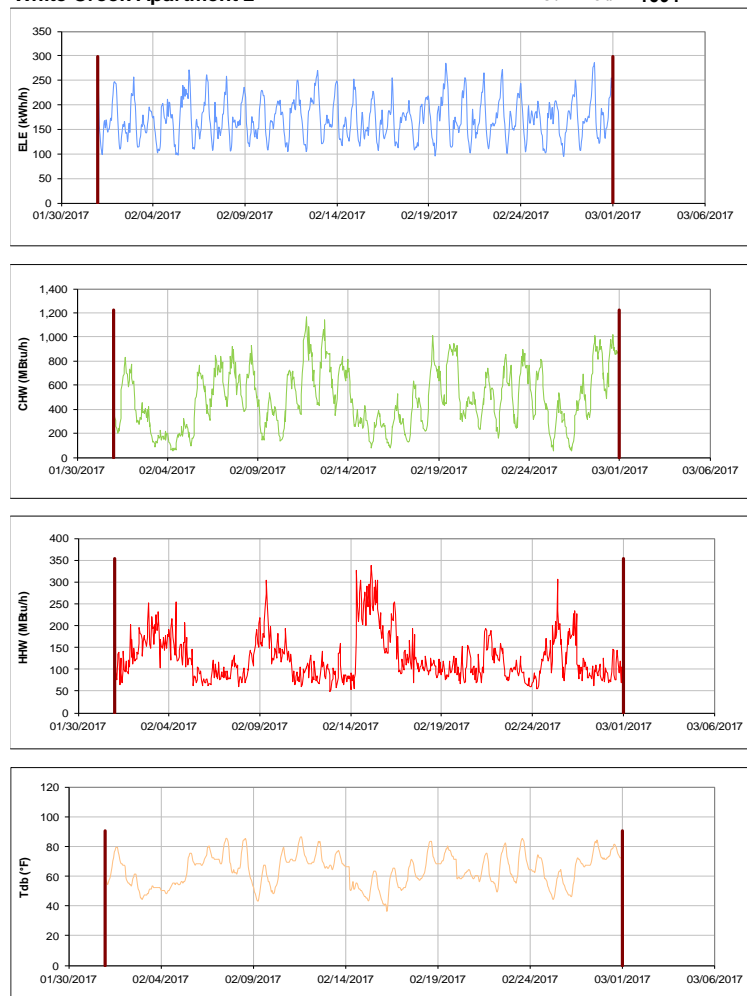


Figure III-177 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 2 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

White Creek Apartment 3

TAMU / BLDG #: 1592

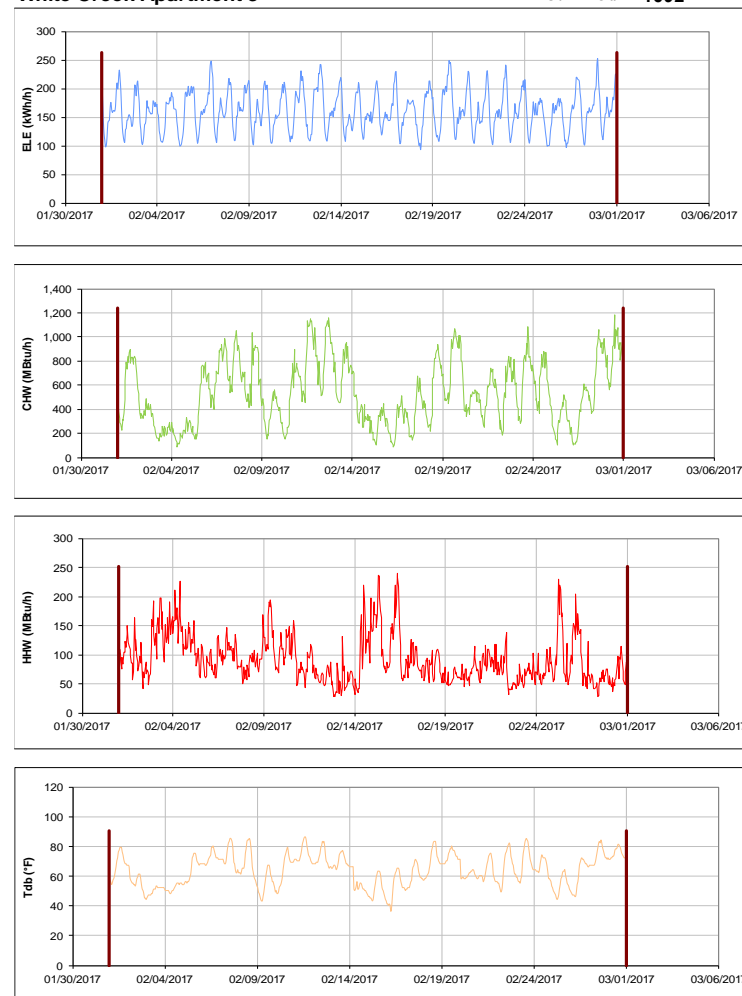


Figure III-178 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 3 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Gilchrist TTI Building

TAMU / BLDG #: 1600



Figure III-179 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Gilchrist TTI Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

International Ocean Discovery Building

TAMU / BLDG #: 1601

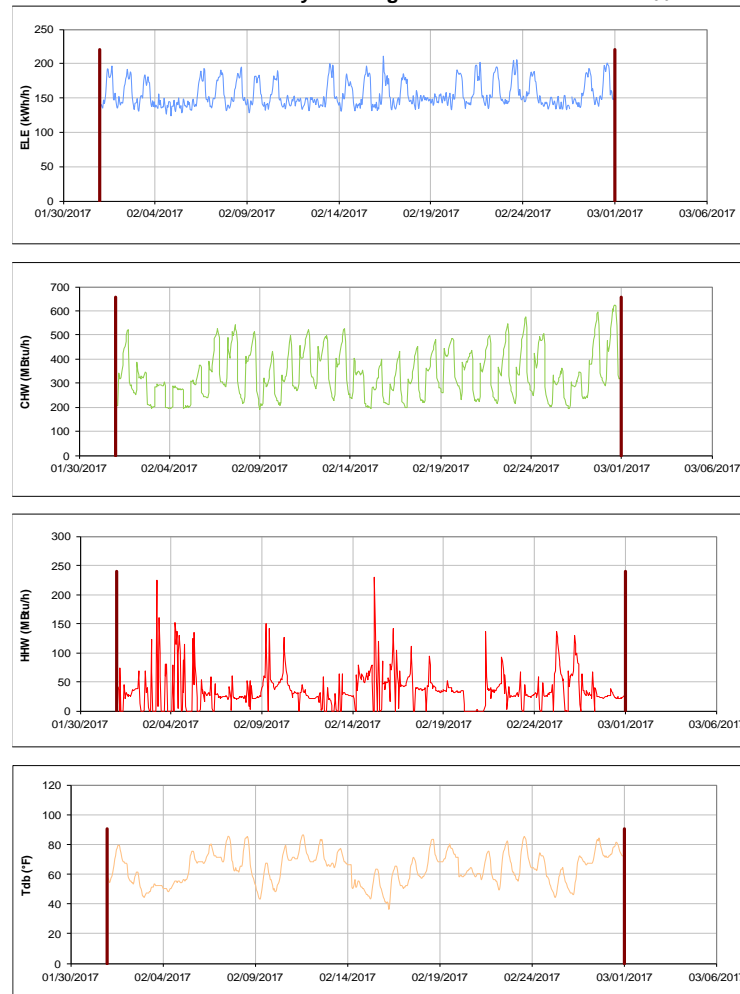


Figure III-180 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for International Ocean Discovery Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Offshore Technology Research Center

TAMU / BLDG #: 1604

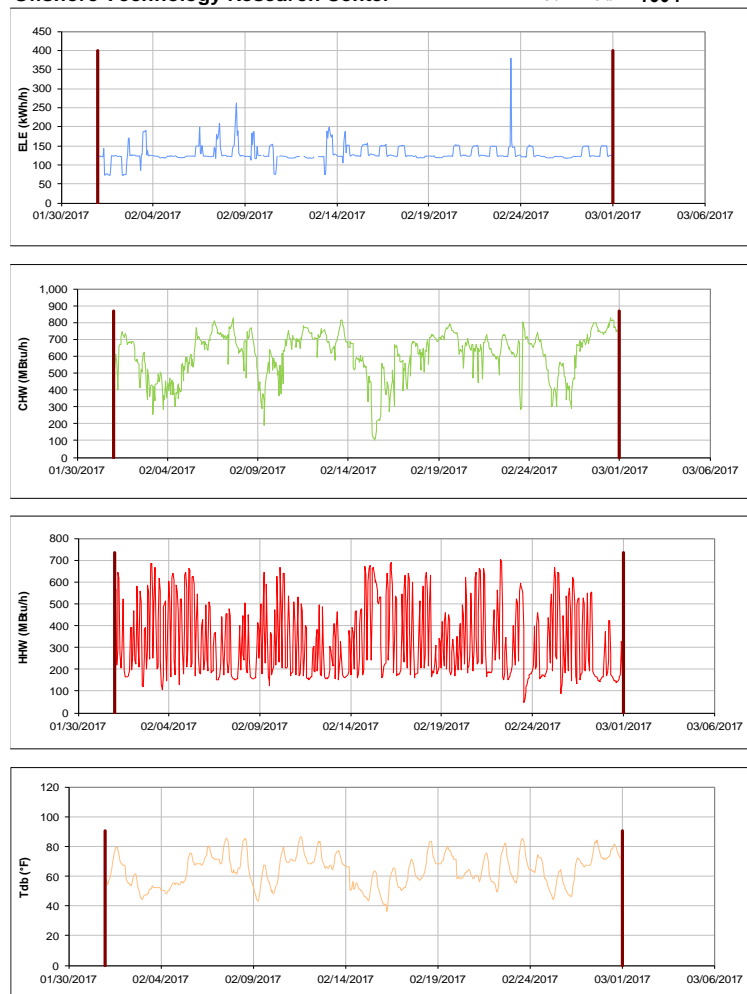


Figure III-181 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Offshore Technology Research Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

George Bush Presidential Library & Museum

TAMU / BLDG #: 1606

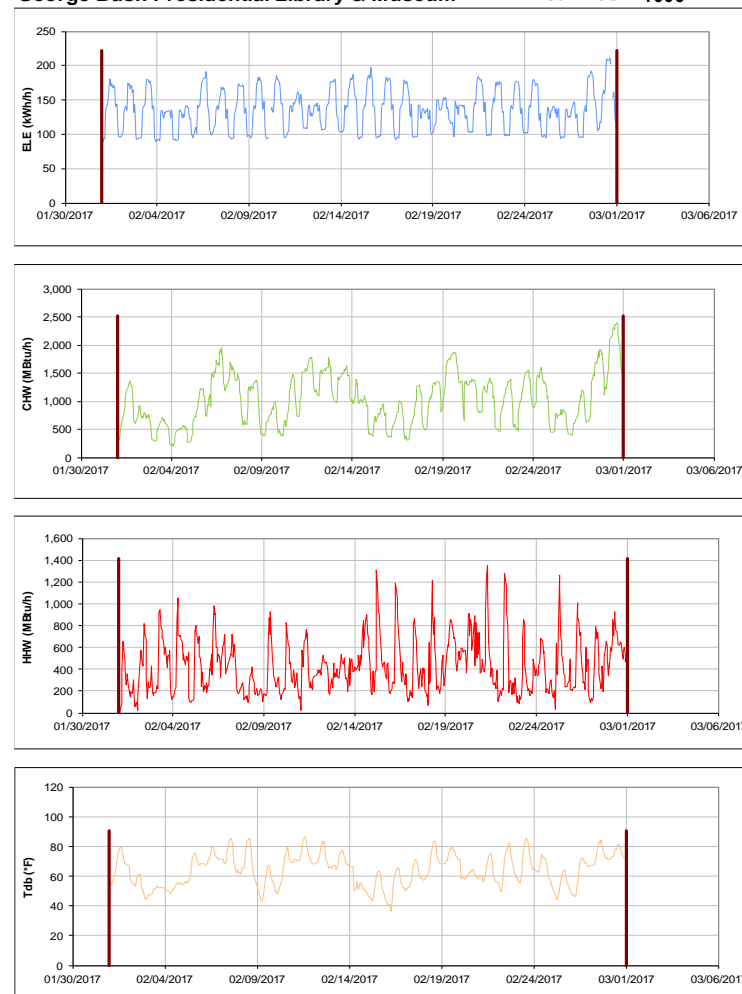


Figure III-182 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for George Bush Presidential Library & Museum during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

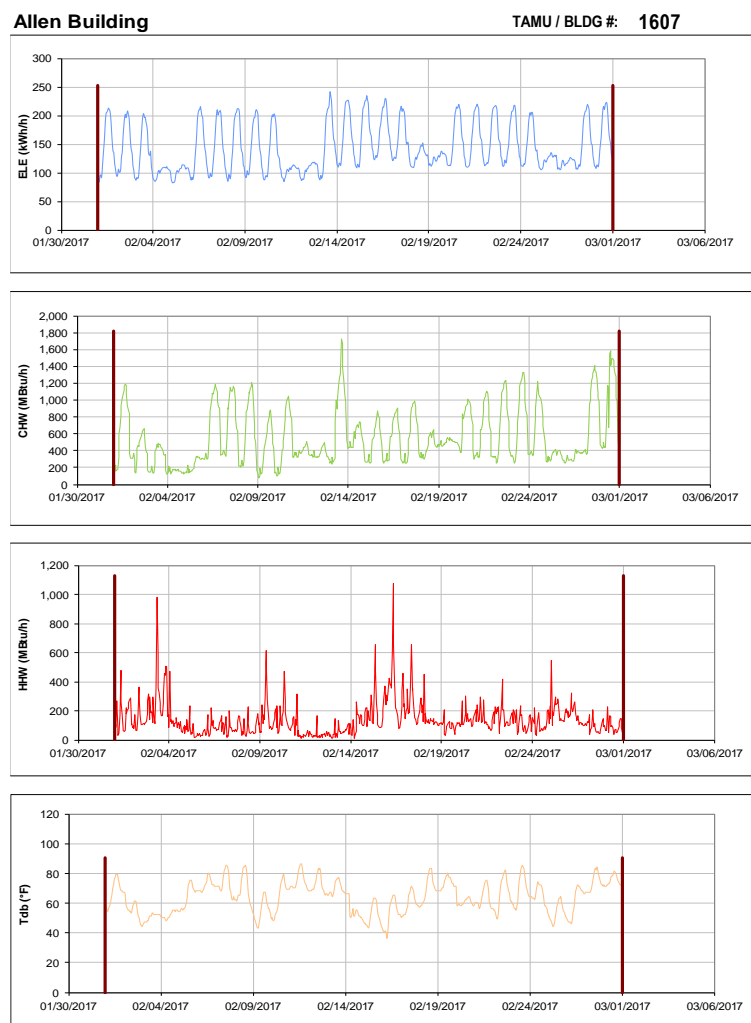


Figure III-183 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Allen Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

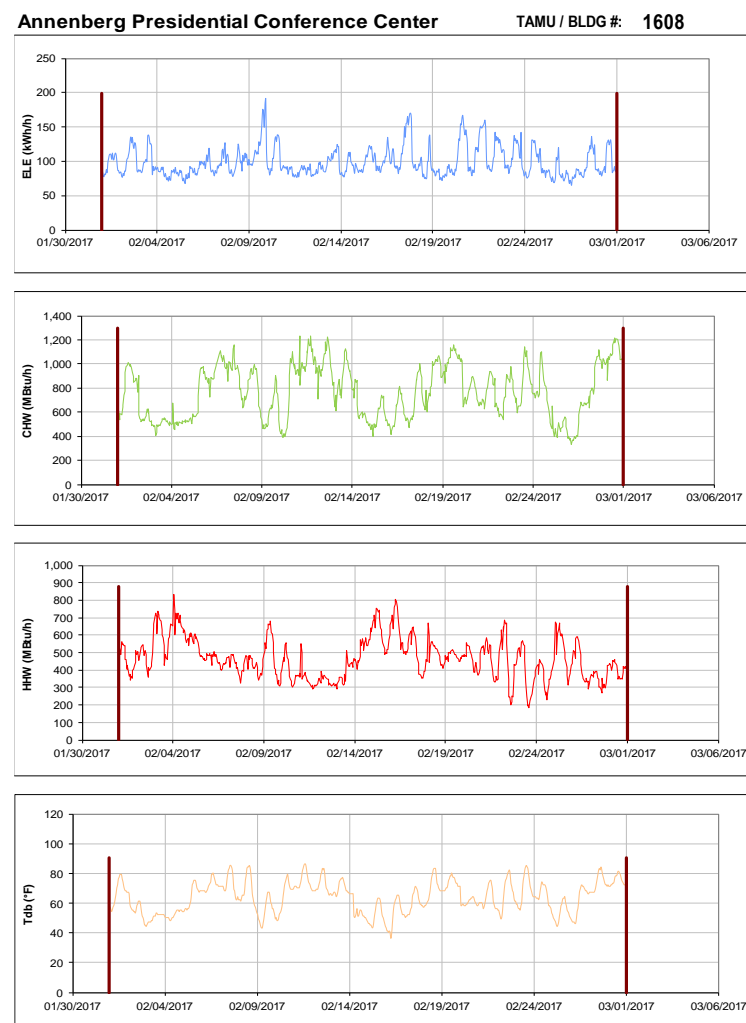


Figure III-184 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Annenberg Presidential Conference Center during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

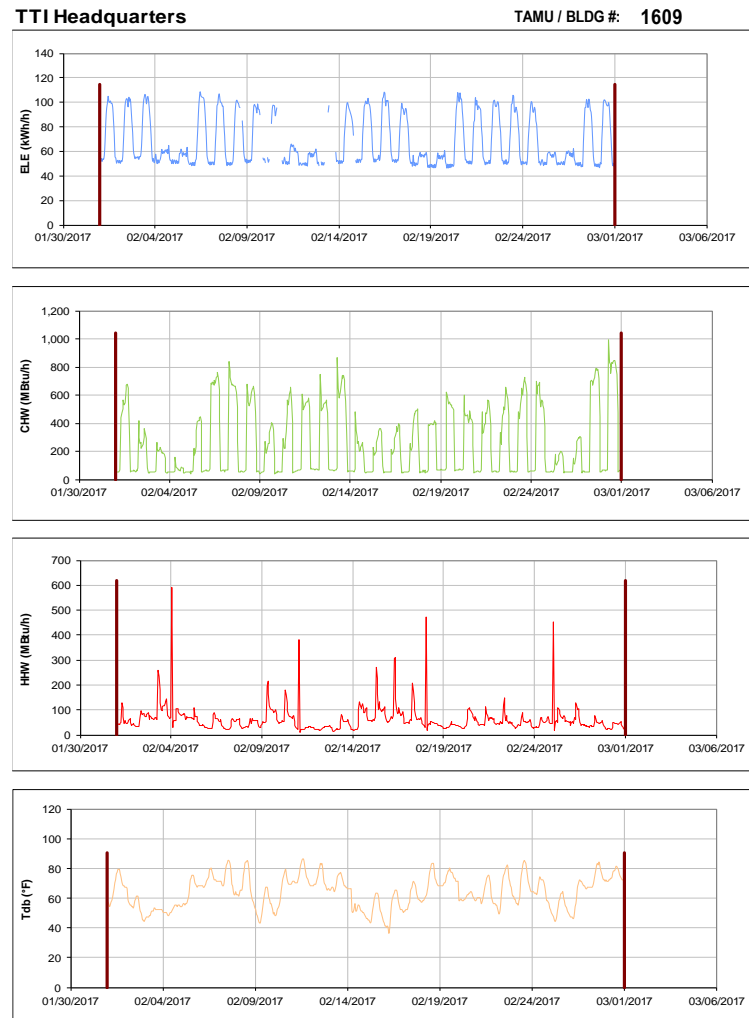


Figure III-185 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TTI Headquarters during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

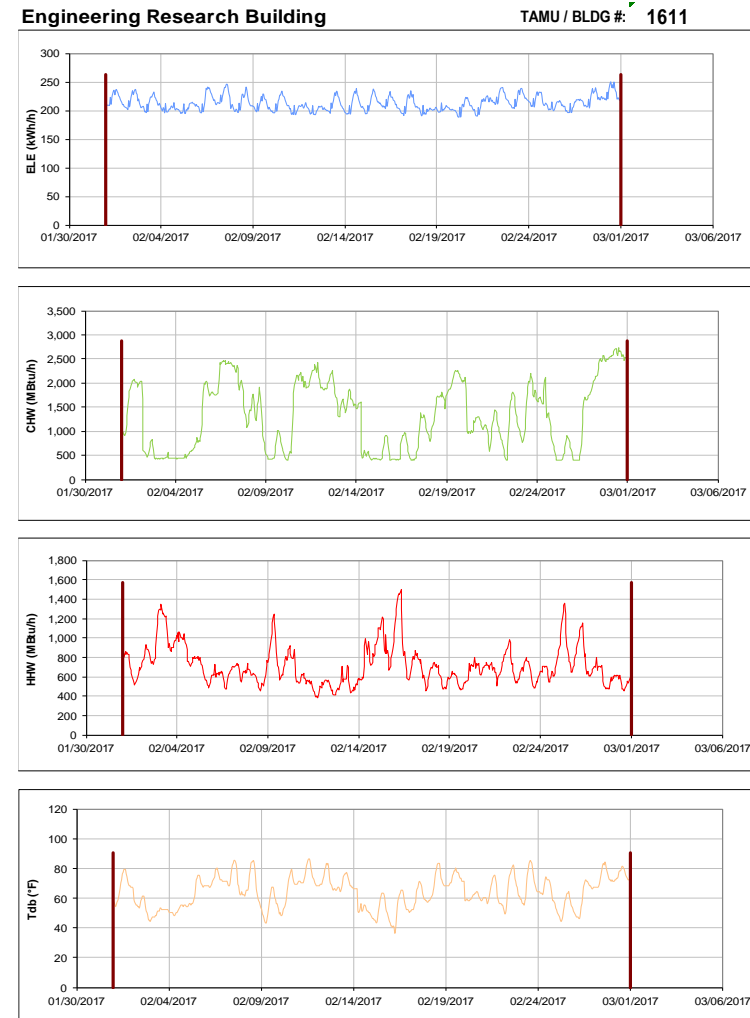


Figure III-186 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Engineering Research Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

General Services Complex

TAMU / BLDG #: 1800

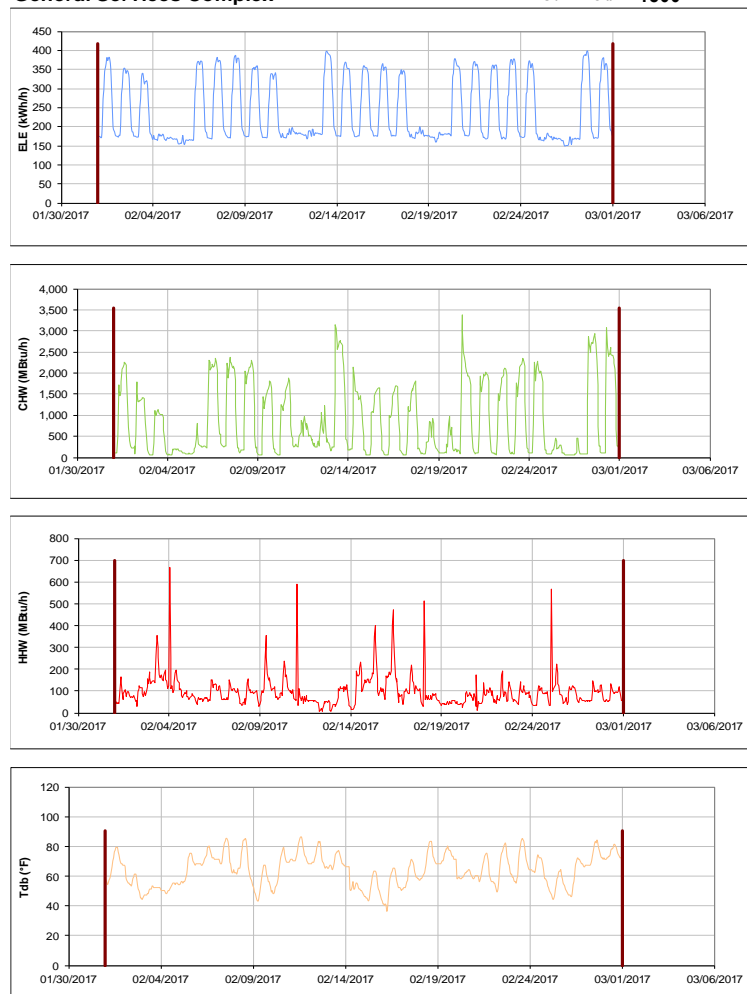


Figure III-187 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for General Services Complex during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

New TVMDL

TAMU / BLDG #: 1809

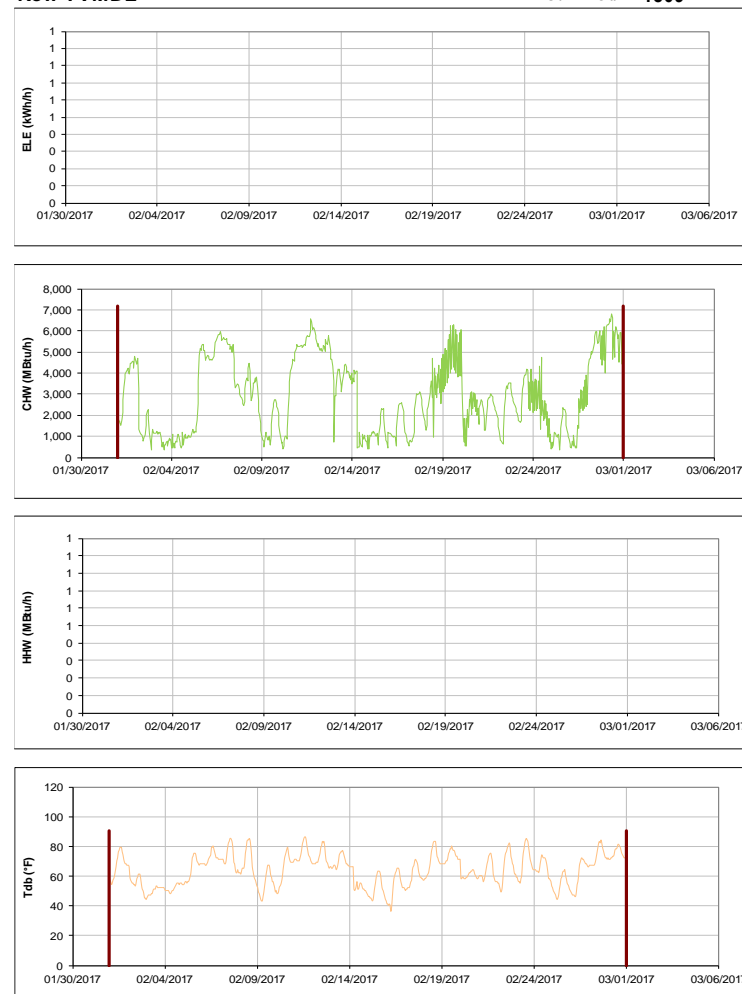


Figure III-188 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for New TVMDL during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Office of the State Chemist Building

TAMU / BLDG #: 1810

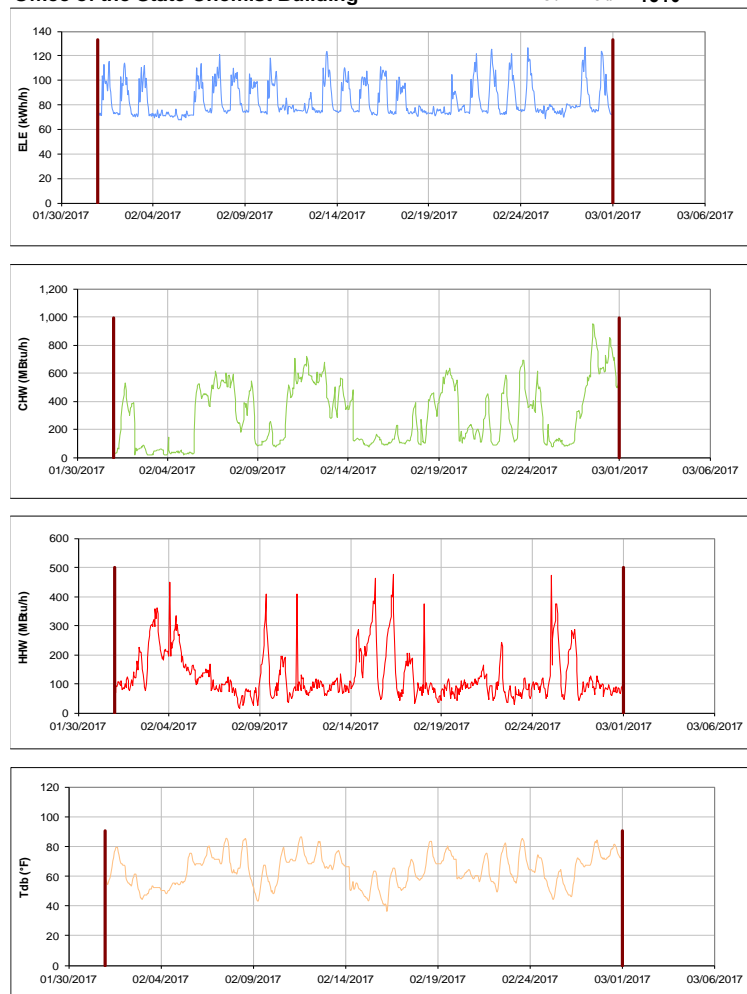


Figure III-189 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Office of the State Chemist Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Vet Med Research Bldg Addition

TAMU / BLDG #: 1811



Figure III-190 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Vet Med Research Bldg Addition during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Medicine Building 1, 2, and 3

TAMU / BLDG #: 2-1813-1814

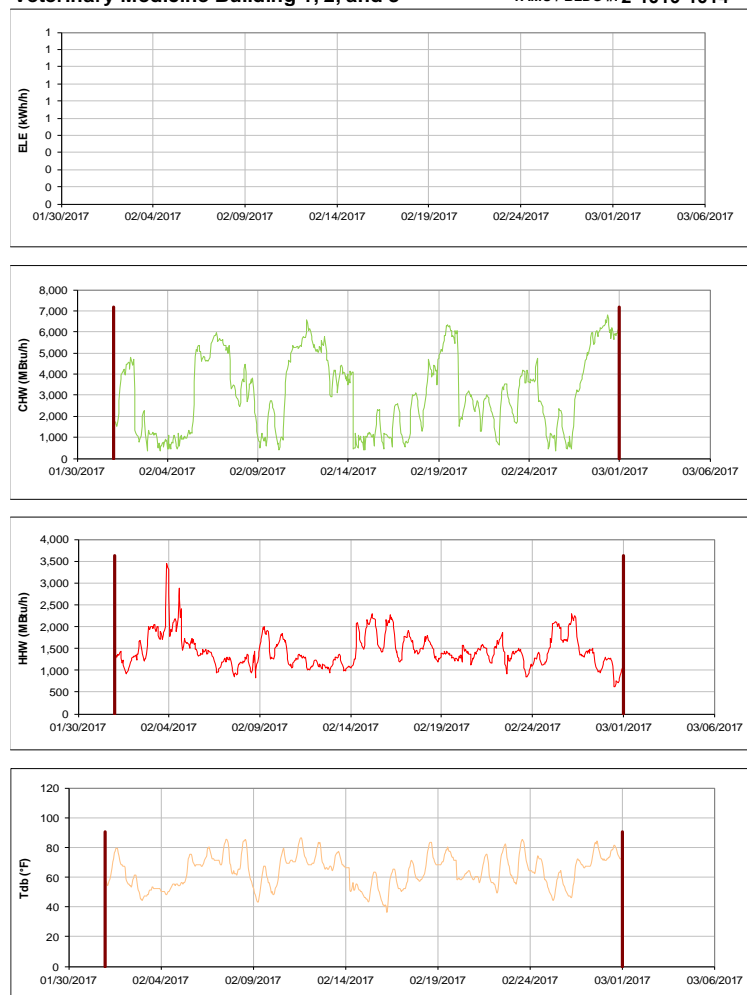


Figure III-191 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Medicine Building 1, 2, and 3 during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Texas Institute for Genomic Medicine

TAMU / BLDG #: 1900



Figure III-192 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas Institute for Genomic Medicine during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Texas A&M Institute for Preclinical Studies A TAMU / BLDG #: 1904

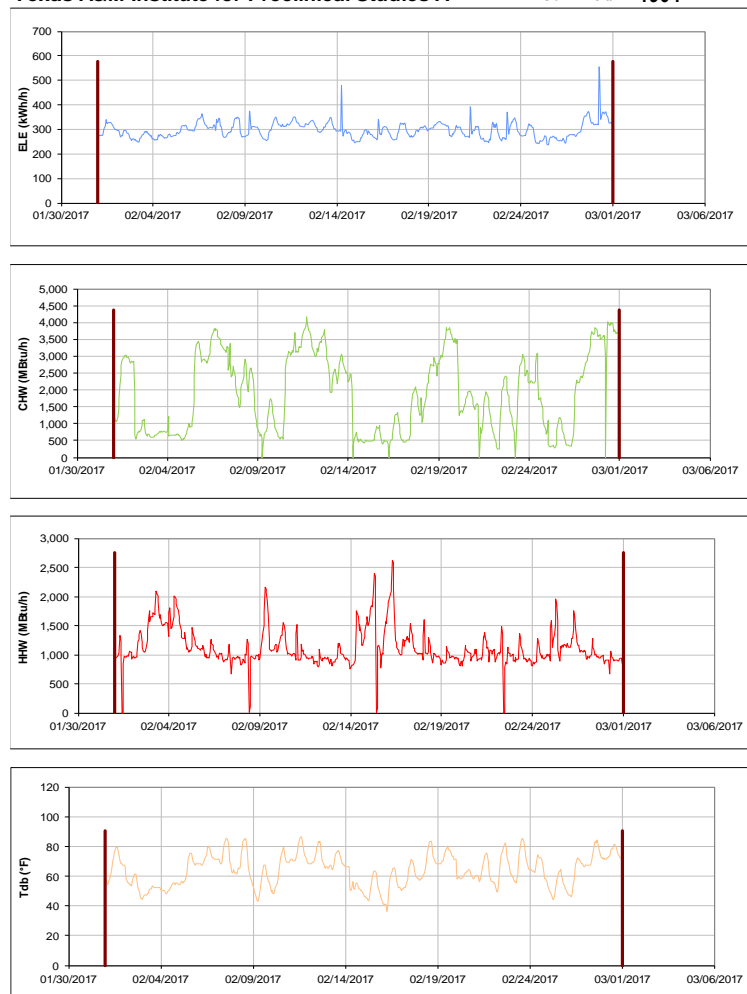


Figure III-193 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas A&M Institute for Preclinical Studies A during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

National Center for Therapeutics Manufacturing TAMU / BLDG #: 1910

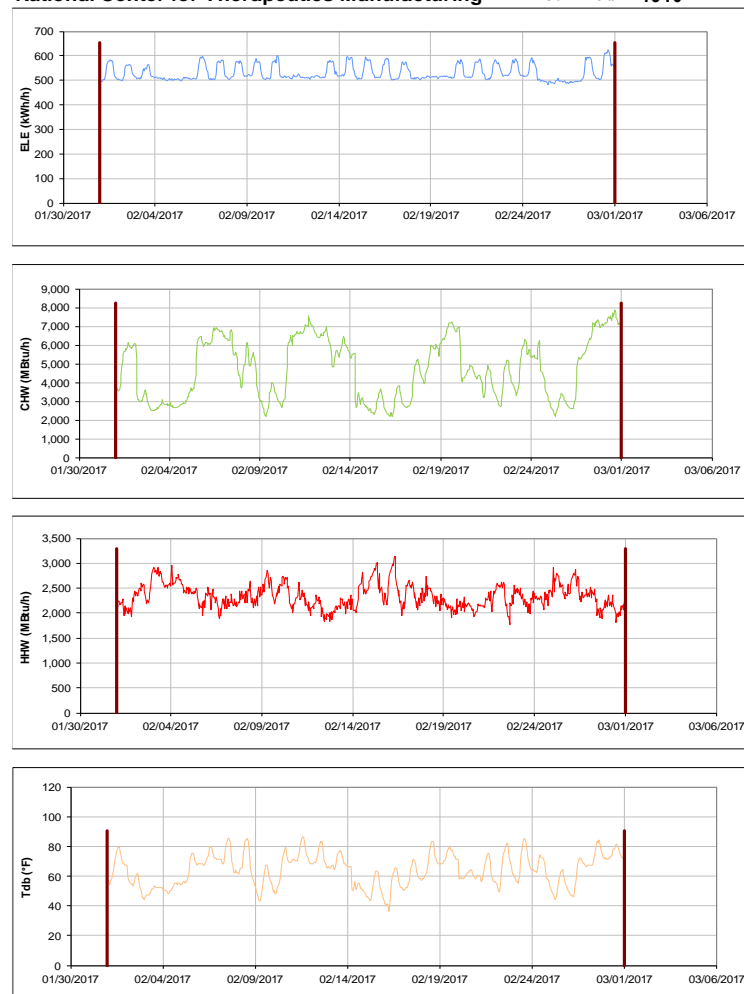


Figure III-194 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for National Center for Therapeutics Manufacturing during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Multi-Species Research Building

TAMU / BLDG #: 1911

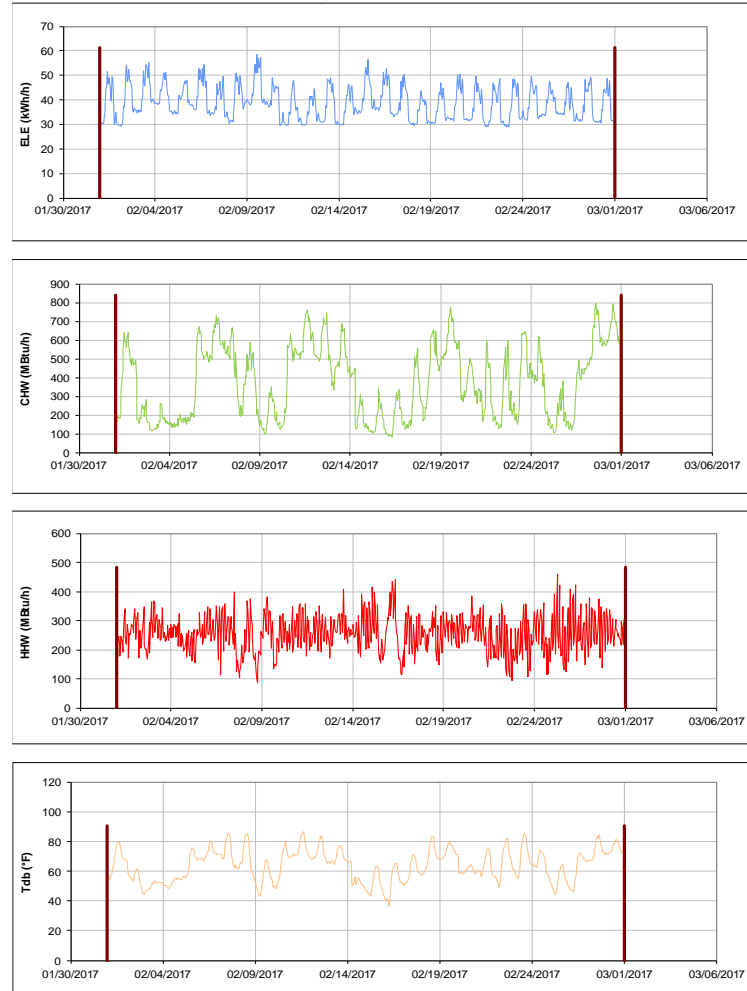


Figure III-195 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Multi-Species Research Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

NCTM Manufacturing Building

TAMU / BLDG #: 10226

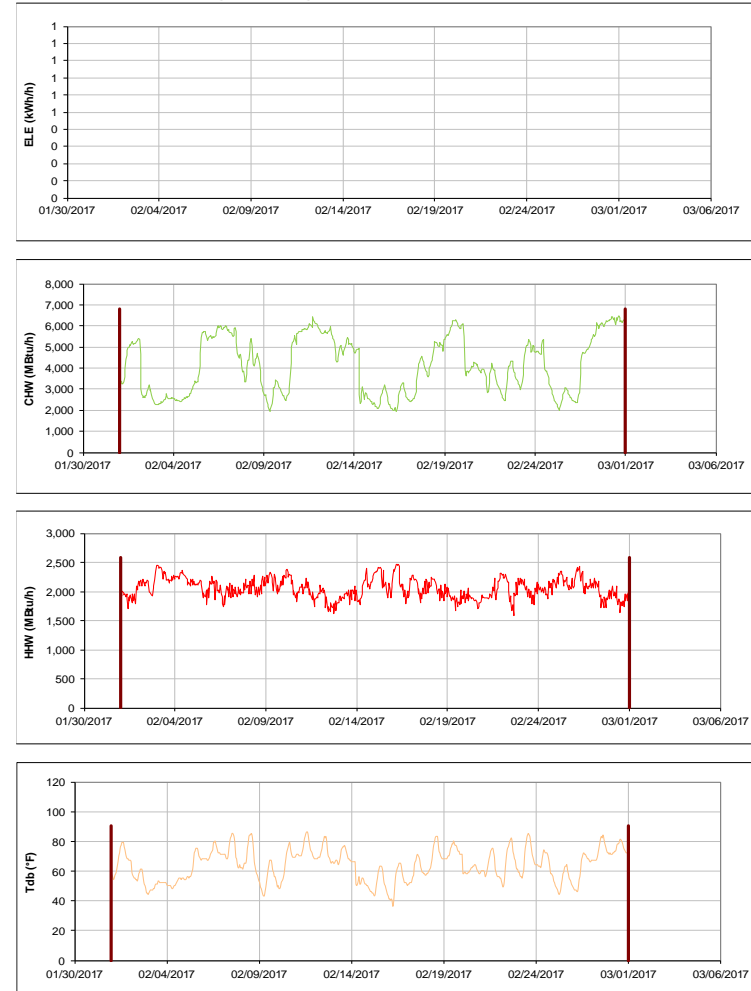


Figure III-196 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for NCTM Manufacturing Building during the Month of February 2017 and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

IV. Energy Balance Plots for February 2017 Consumption

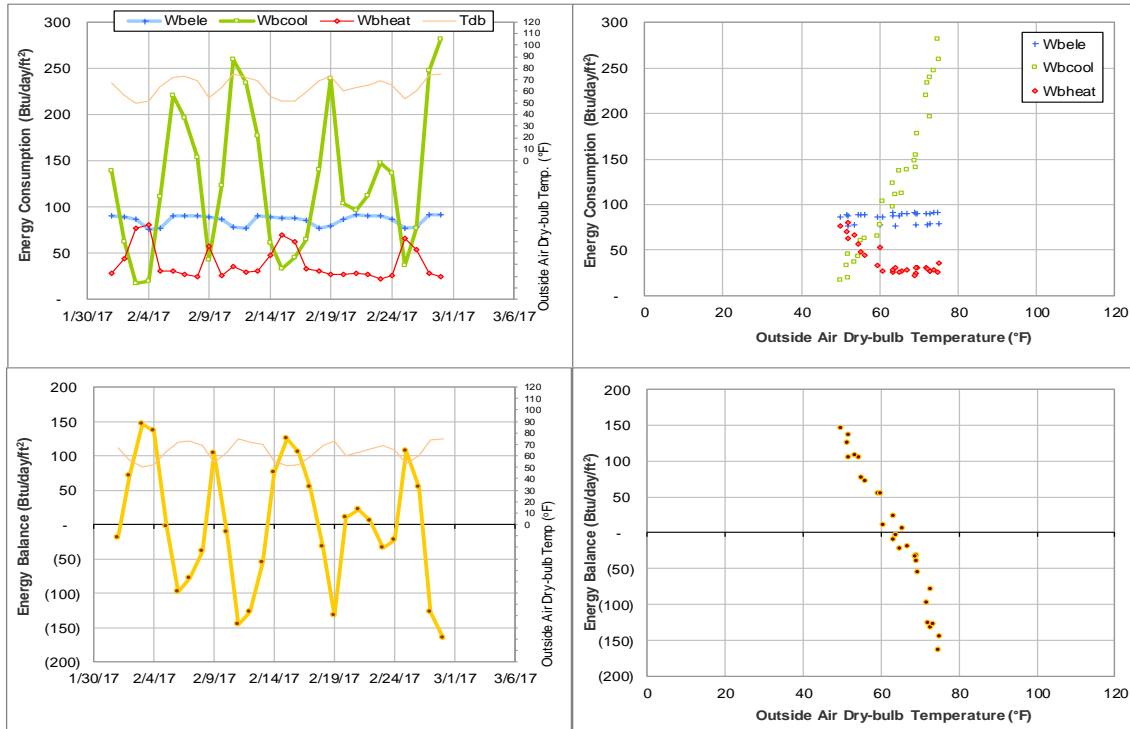


Figure IV-1 Emerging Technologies Building TAMU BLDG # 270 Energy Balance Plot during February 2017

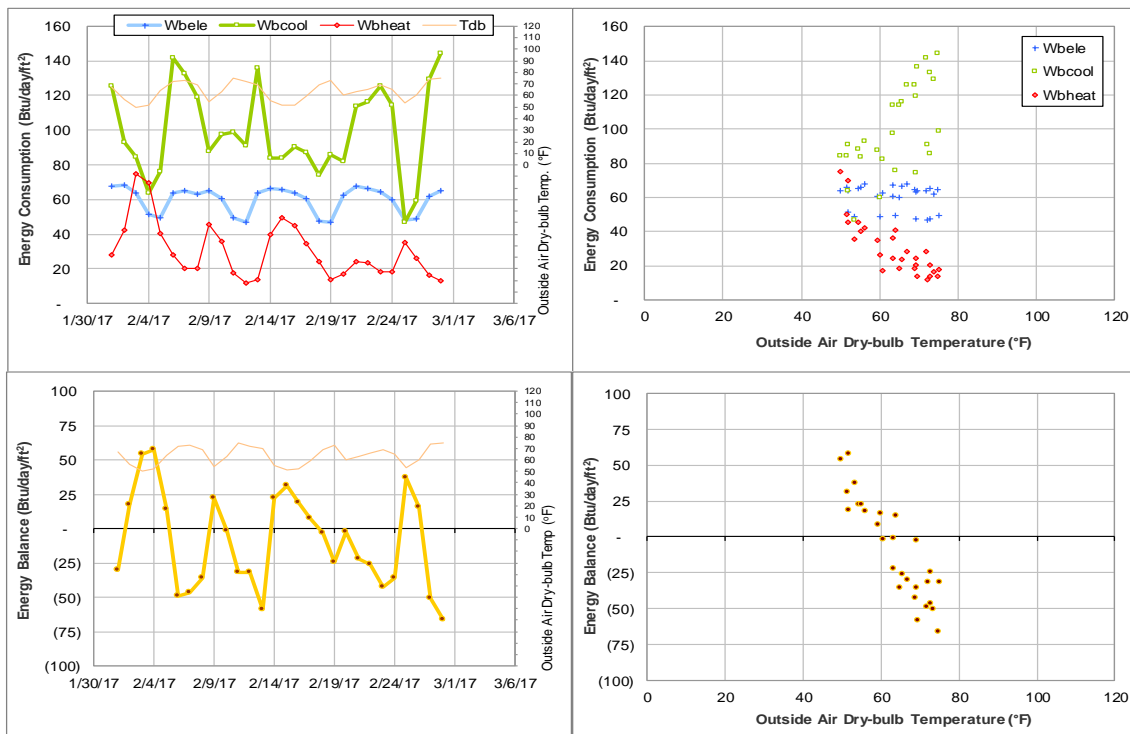


Figure IV-2 Liberal Arts and Arts & Humanities Building TAMU BLDG # 275 Energy Balance Plot during February 2017

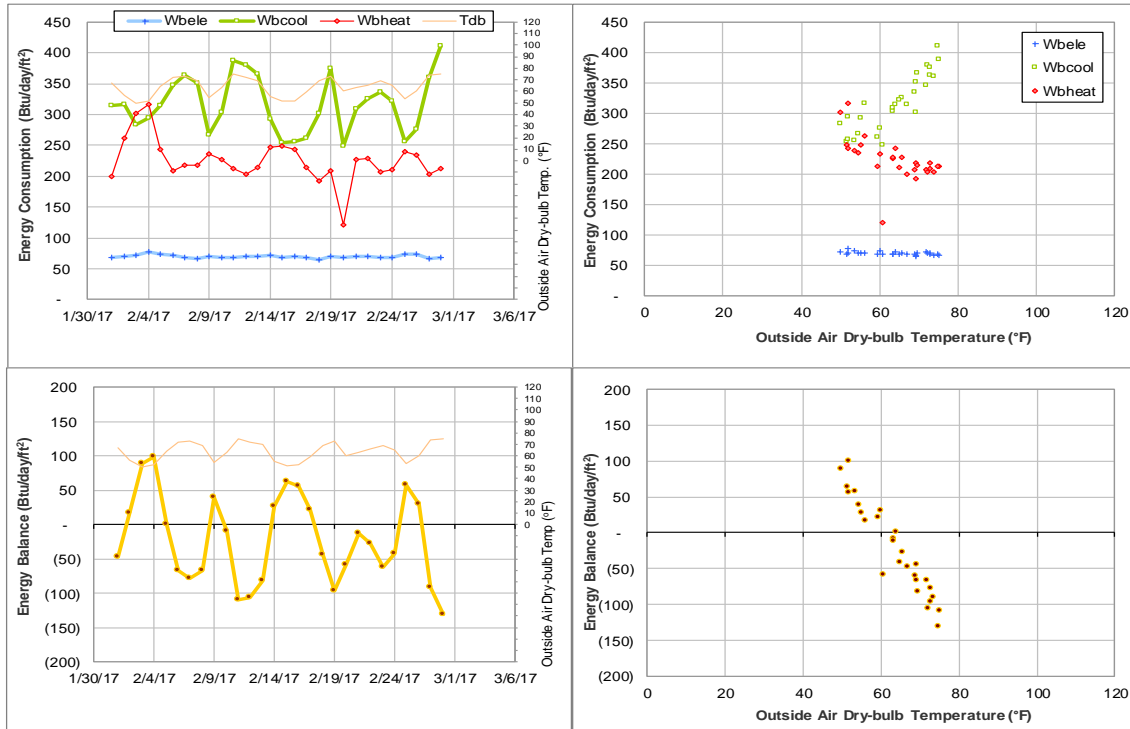


Figure IV-3 Wells Residence Hall TAMU BLDG # 290 Energy Balance Plot during February 2017

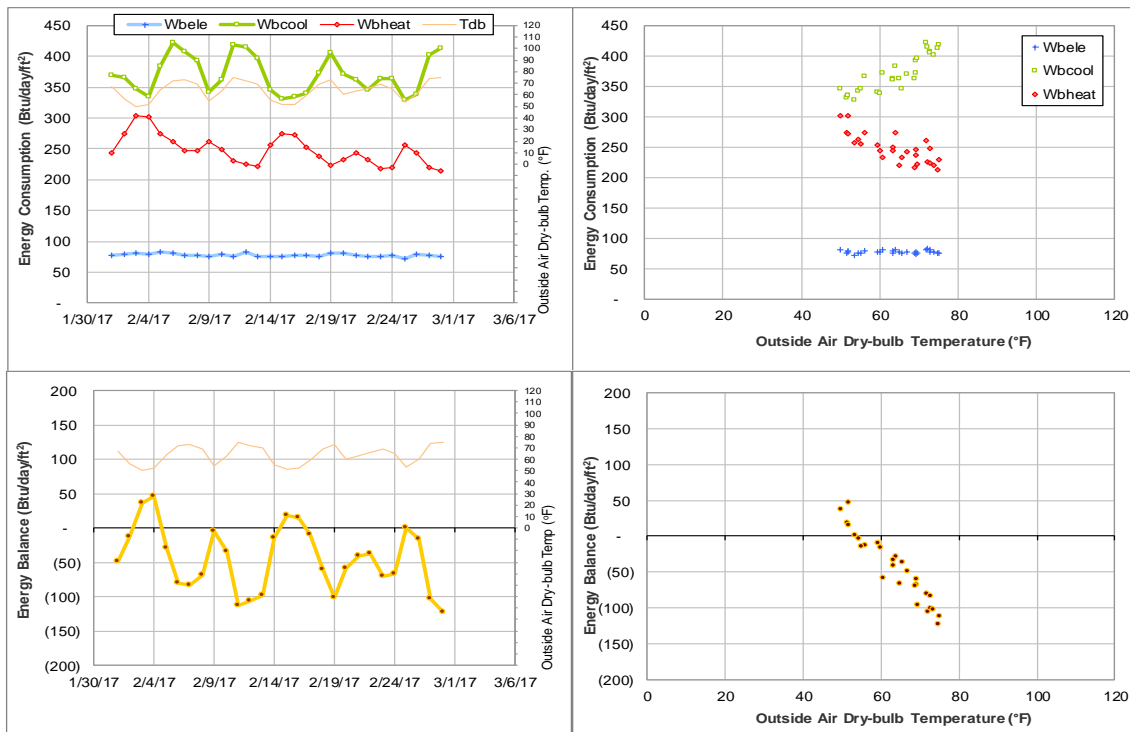


Figure IV-4 Rudder Residence Hall TAMU BLDG # 291 Energy Balance Plot during February 2017

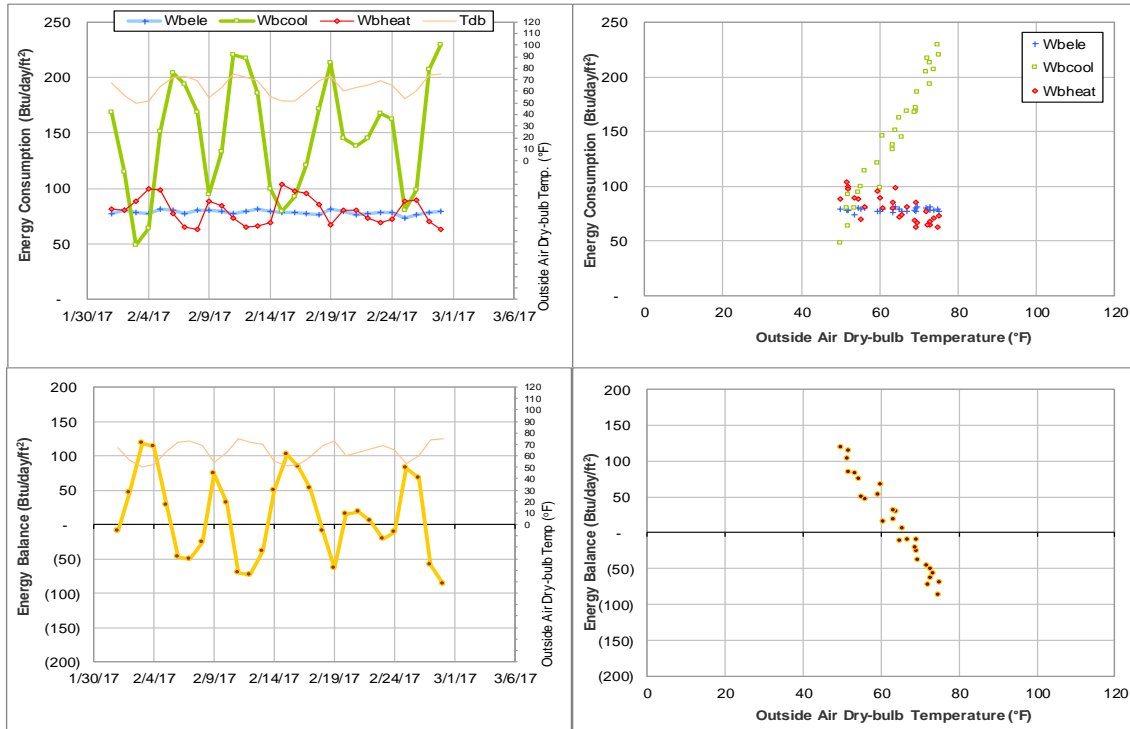


Figure IV-5 Eppright Residence Hall TAMU BLDG # 292 Energy Balance Plot during February 2017

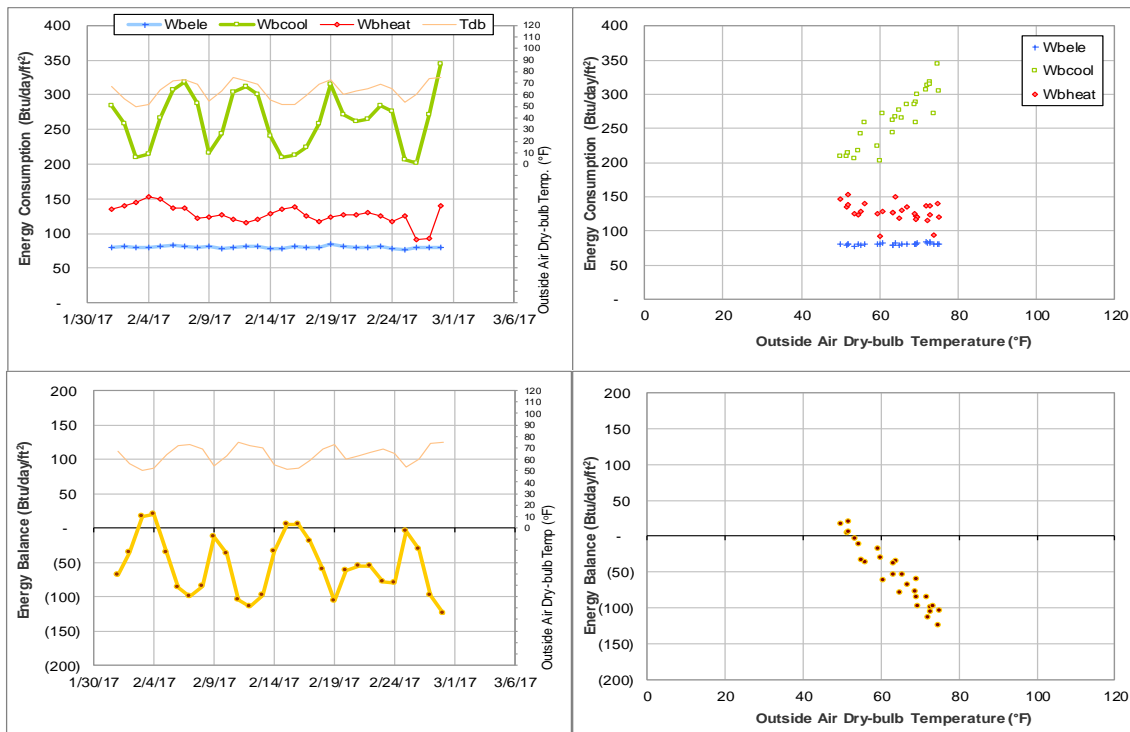


Figure IV-6 Appelt Residence Hall TAMU BLDG # 293 Energy Balance Plot during February 2017

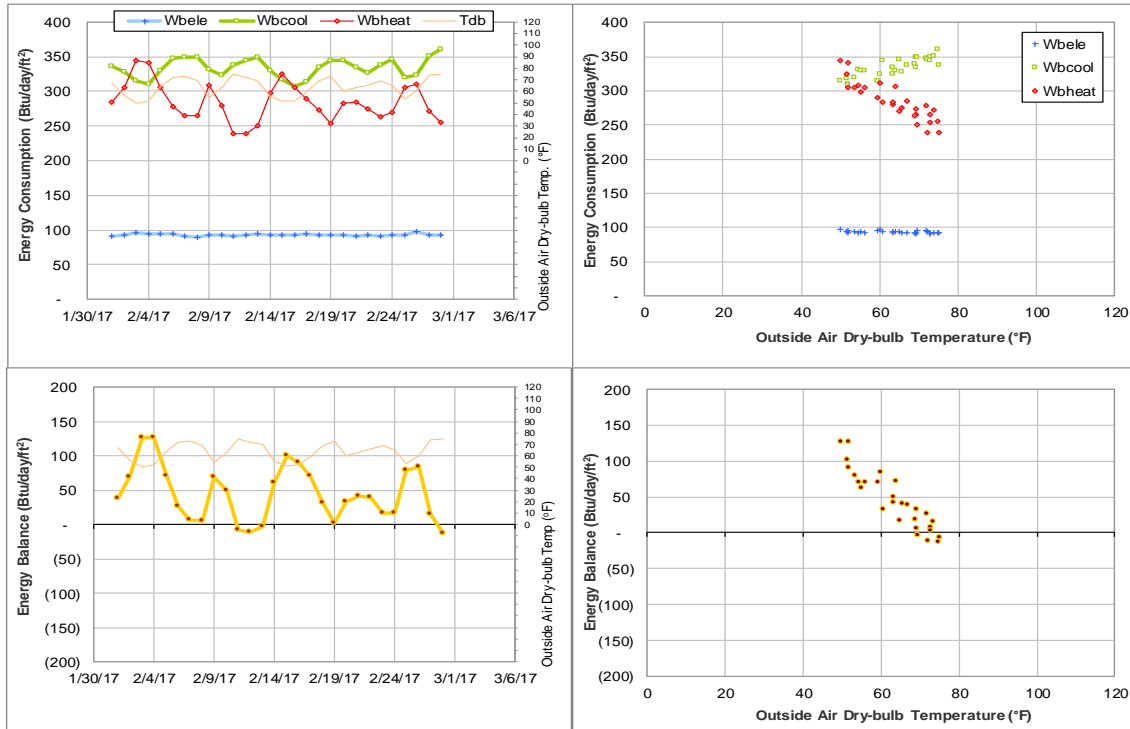


Figure IV-7 Lechner Residence Hall TAMU BLDG # 294 Energy Balance Plot during February 2017

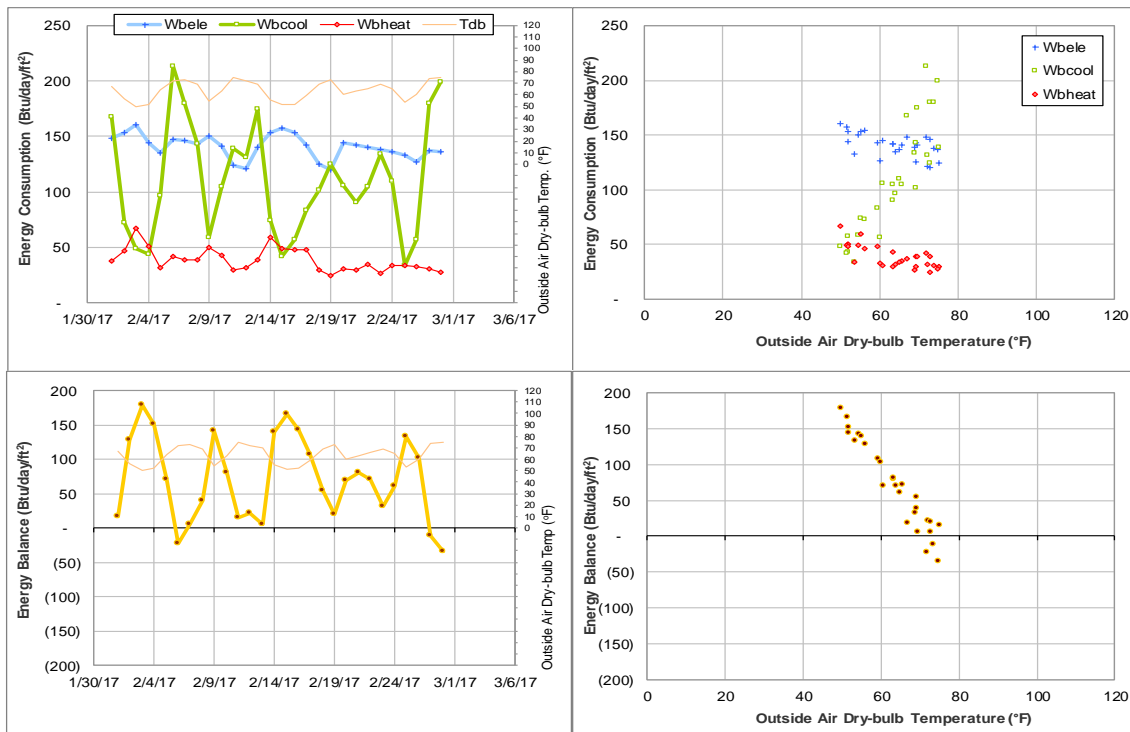


Figure IV-8 Mitchell Inst. for Fundamental Phys & Astronomy TAMU BLDG # 296 Energy Balance Plot during February 2017

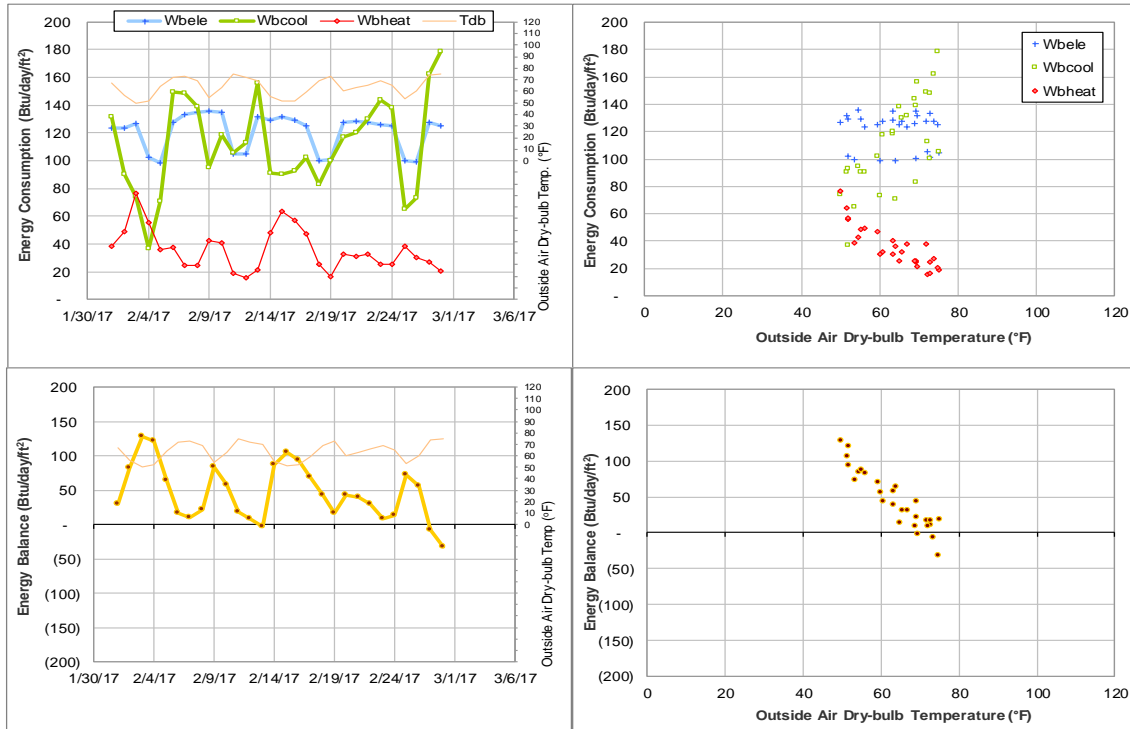


Figure IV-9 CE TTI Office & Lab Building TAMU BLDG # 325 Energy Balance Plot during February 2017

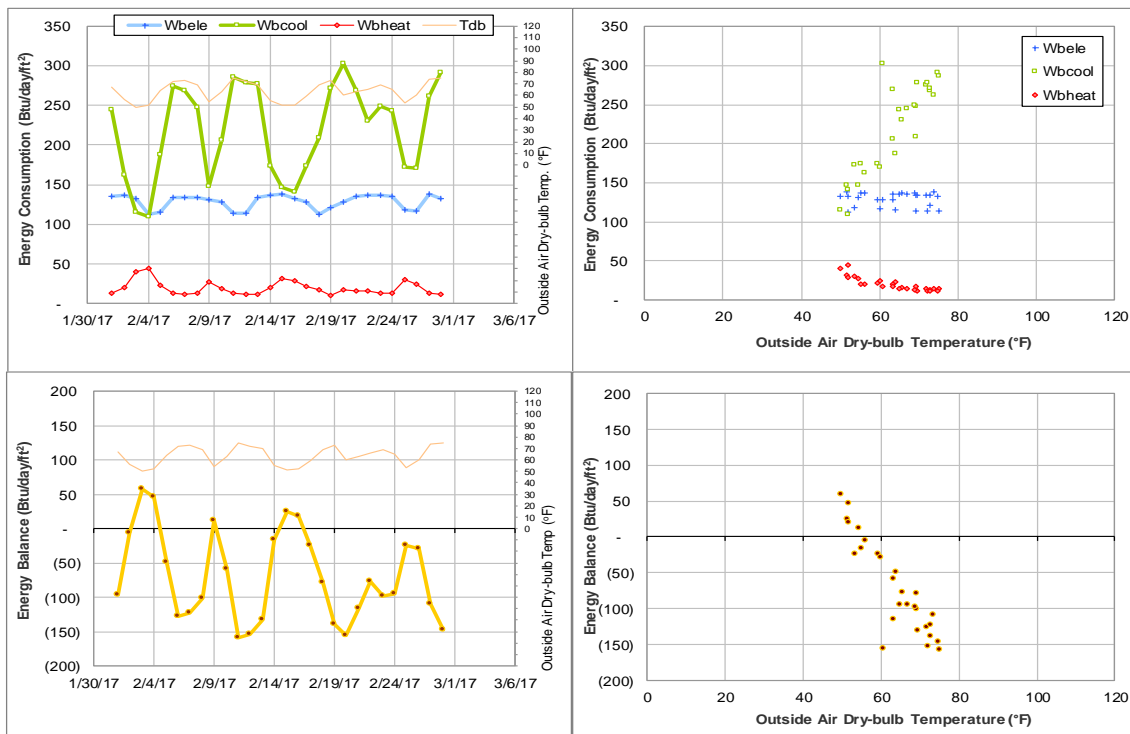


Figure IV-10 Bright Aerospace Building TAMU BLDG # 353 Energy Balance Plot during February 2017

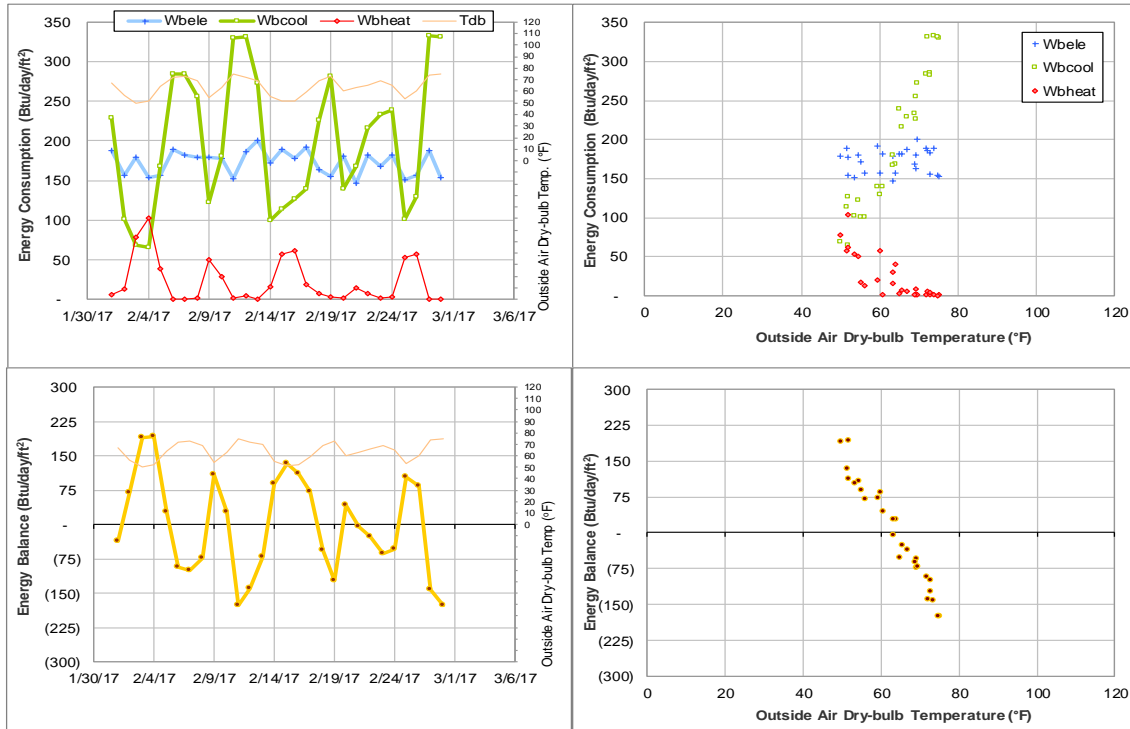


Figure IV-11 Davis Football Player Development Center TAMU BLDG # 358 Energy Balance Plot during February 2017

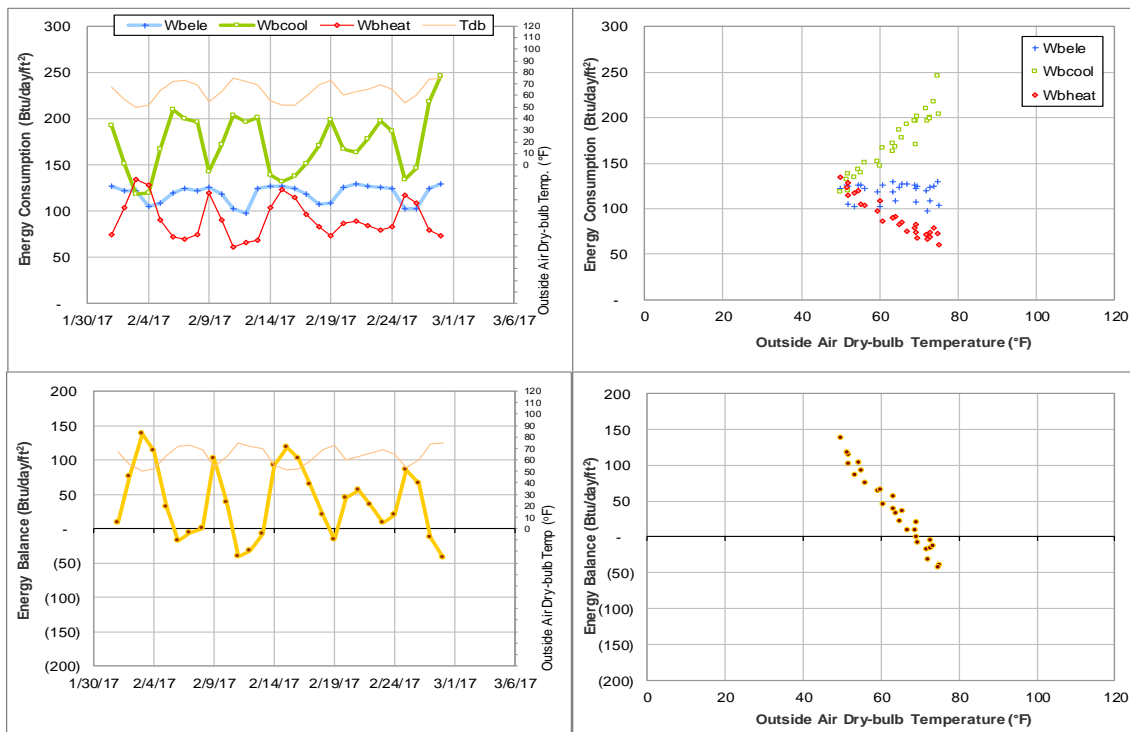


Figure IV-12 Architecture Building B&C TAMU BLDG # 359 Energy Balance Plot during February 2017

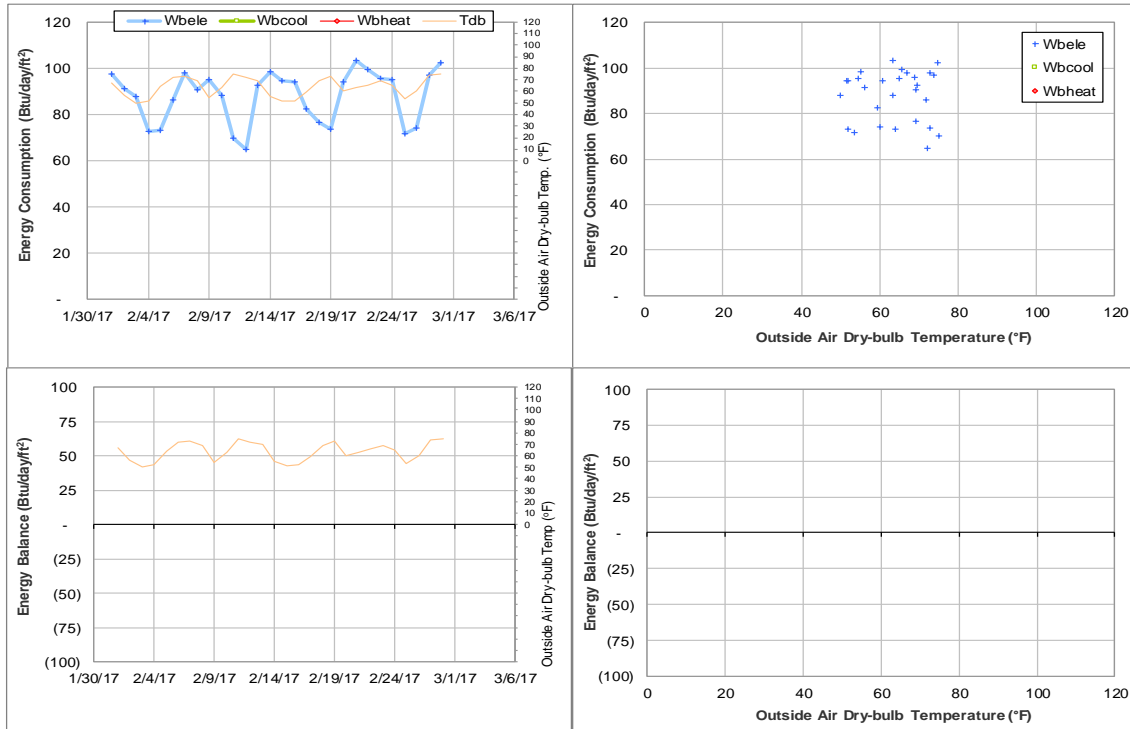


Figure IV-13 Architecture Building B TAMU BLDG # 359 Energy Balance Plot during February 2017

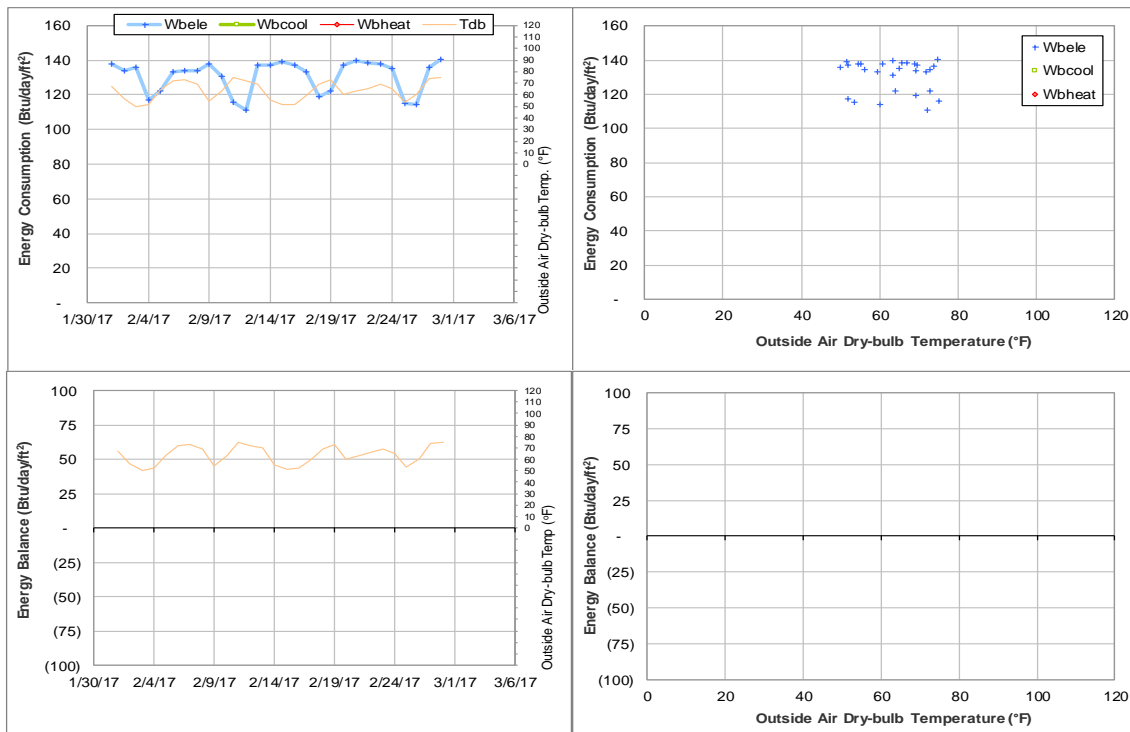


Figure IV-14 Architecture Building C TAMU BLDG # 432 Energy Balance Plot during February 2017

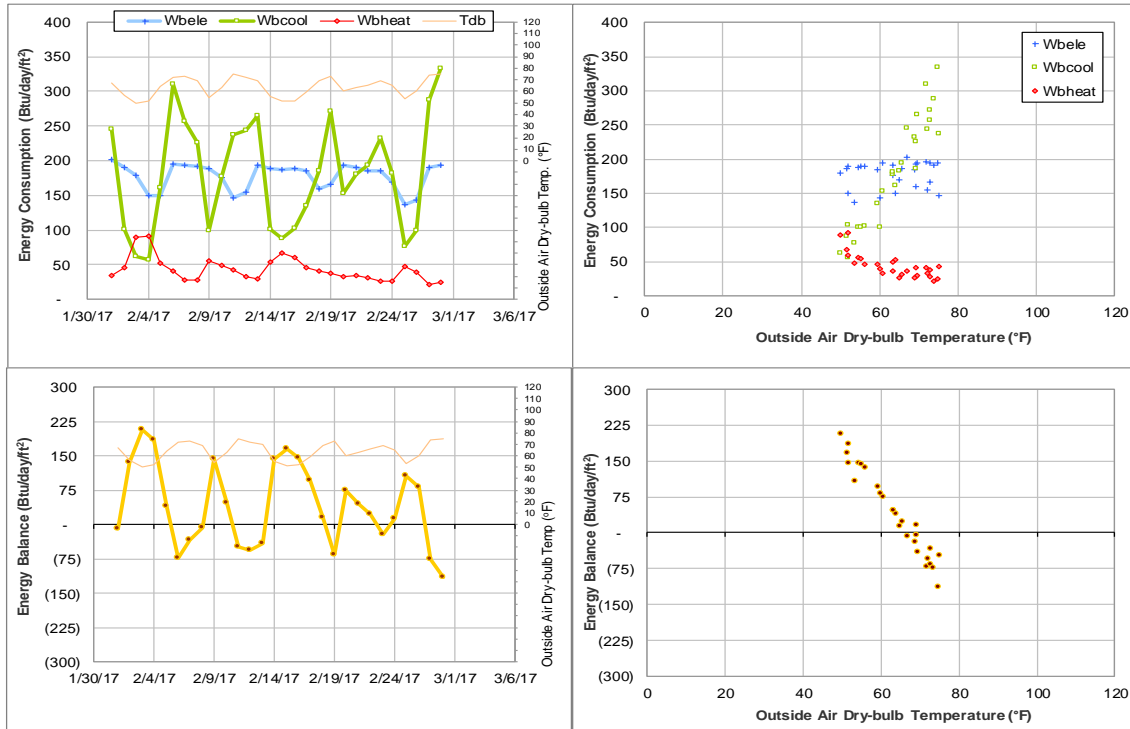


Figure IV-15 Bright Football Complex TAMU BLDG # 361 Energy Balance Plot during February 2017

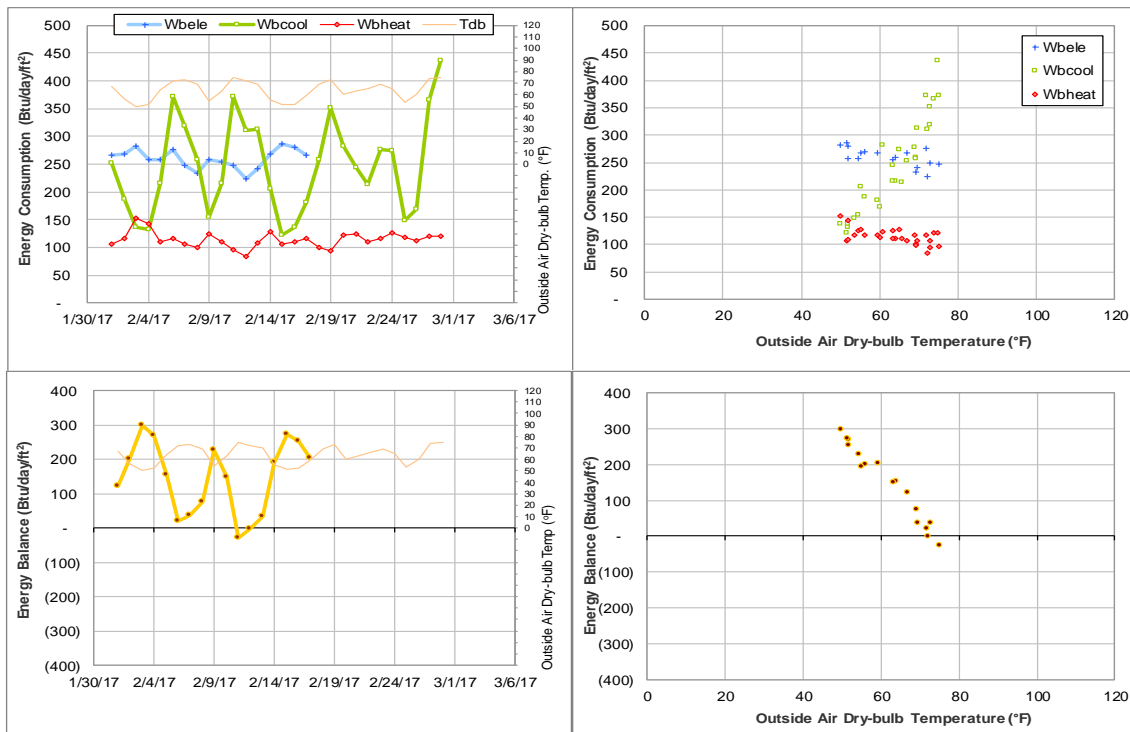


Figure IV-16 Kyle Field TAMU BLDG # 367 Energy Balance Plot during February 2017

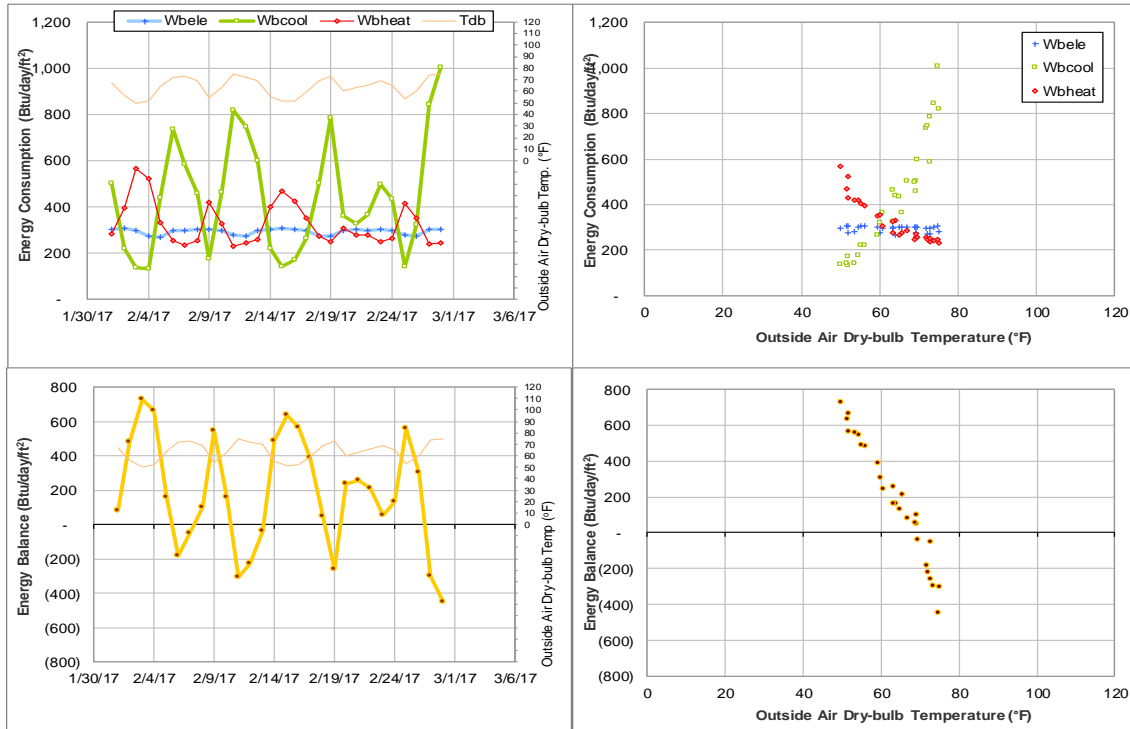


Figure IV-17 Chemistry Building Addition TAMU BLDG # 376 Energy Balance Plot during February 2017

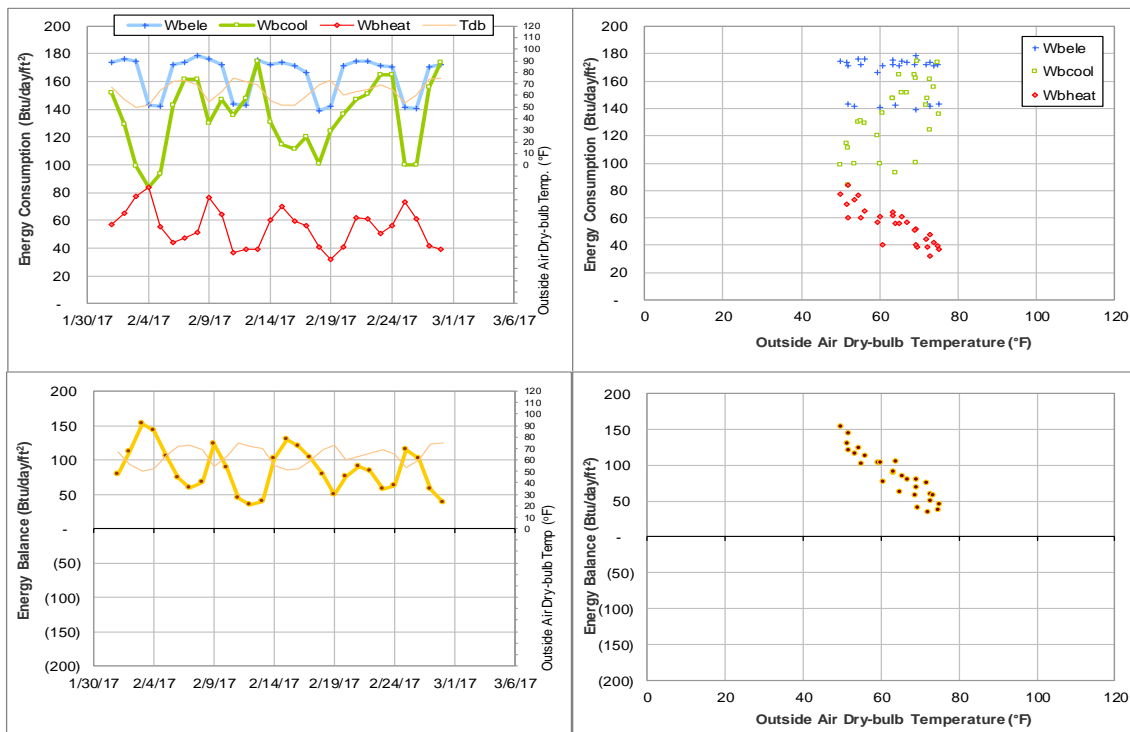


Figure IV-18 Koldus Building TAMU BLDG # 383 Energy Balance Plot during February 2017

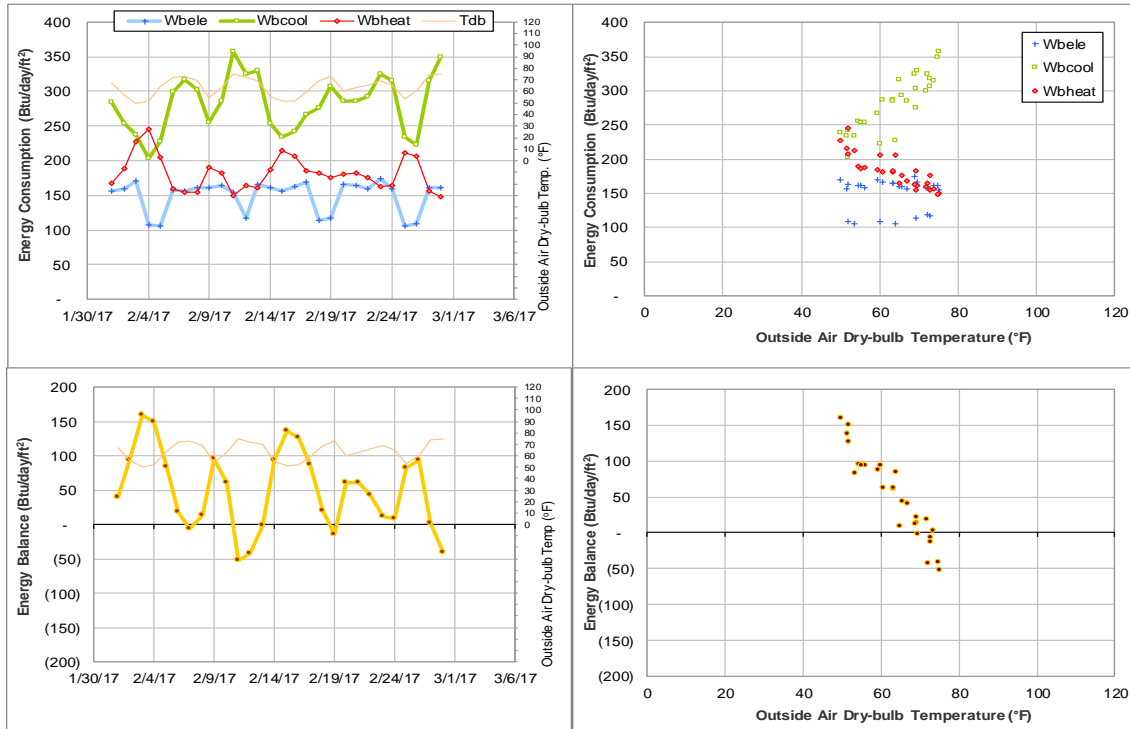


Figure IV-19 Sanders Corps of Cadets Center TAMU BLDG # 384 Energy Balance Plot during February 2017

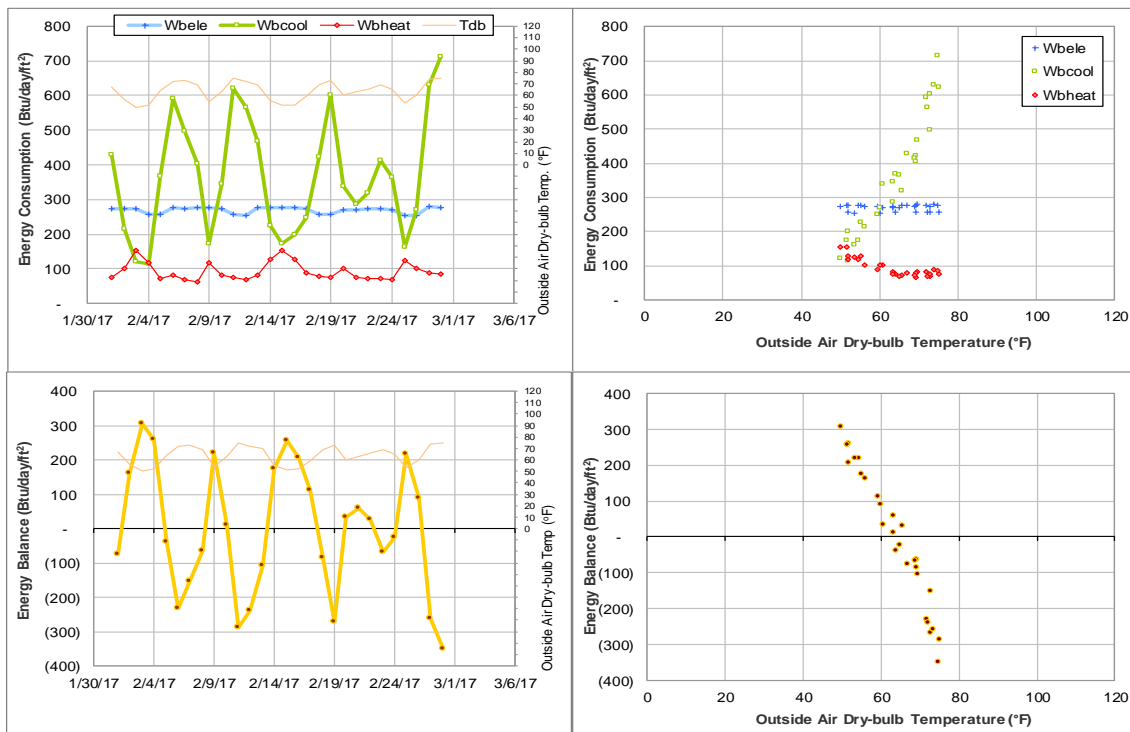


Figure IV-20 Jack E. Brown Chemical Engineering Building TAMU BLDG # 386 Energy Balance Plot during February 2017

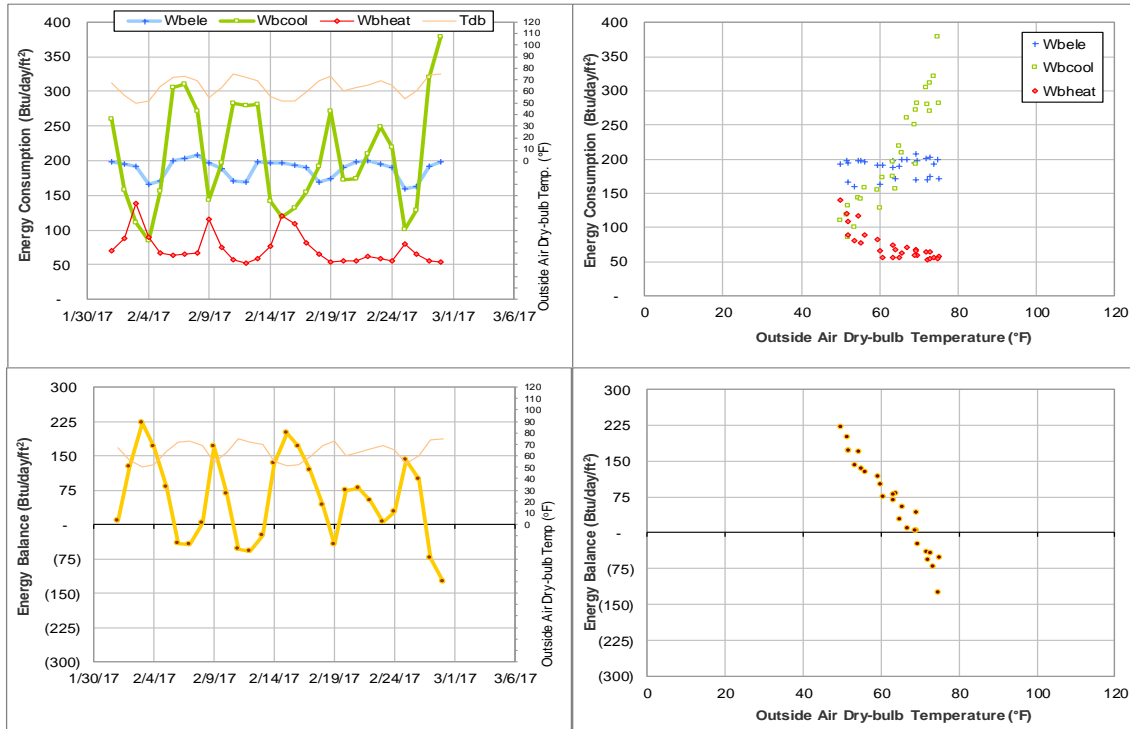


Figure IV-21 Richardson Petroleum Engineering Building TAMU BLDG # 387 Energy Balance Plot during February 2017

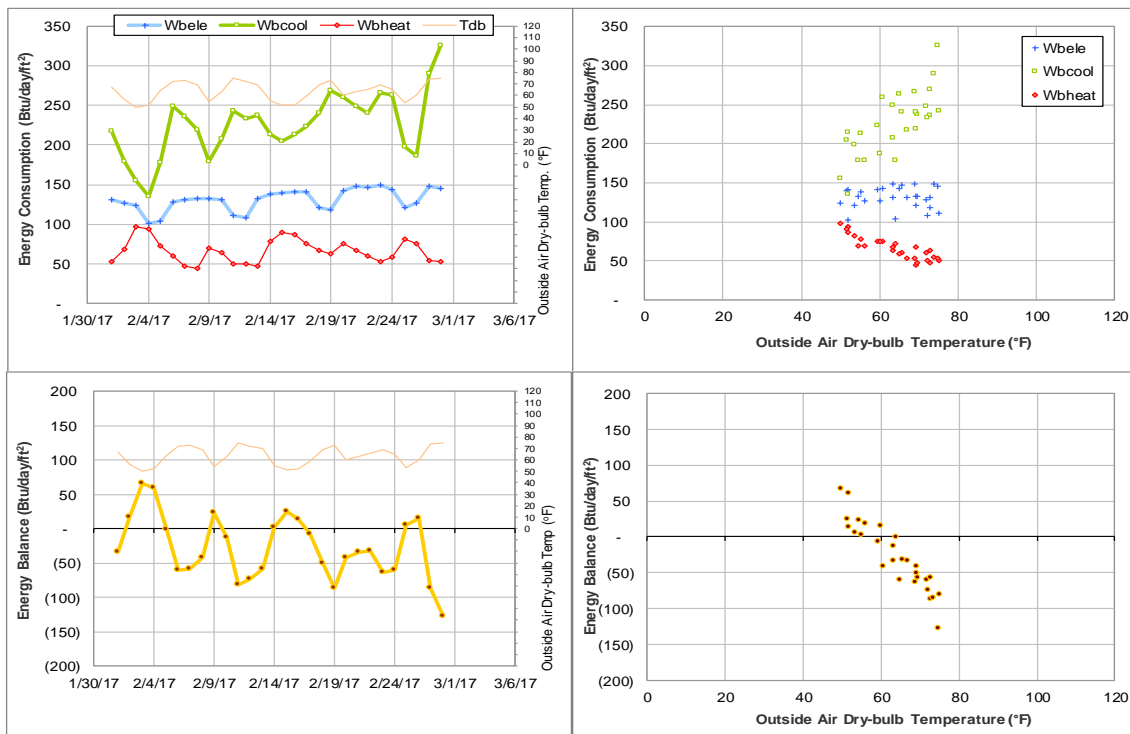


Figure IV-22 James J. Cain'51 and Mechanical Engineering Office Building TAMU BLDG # 391 Energy Balance Plot during February 2017

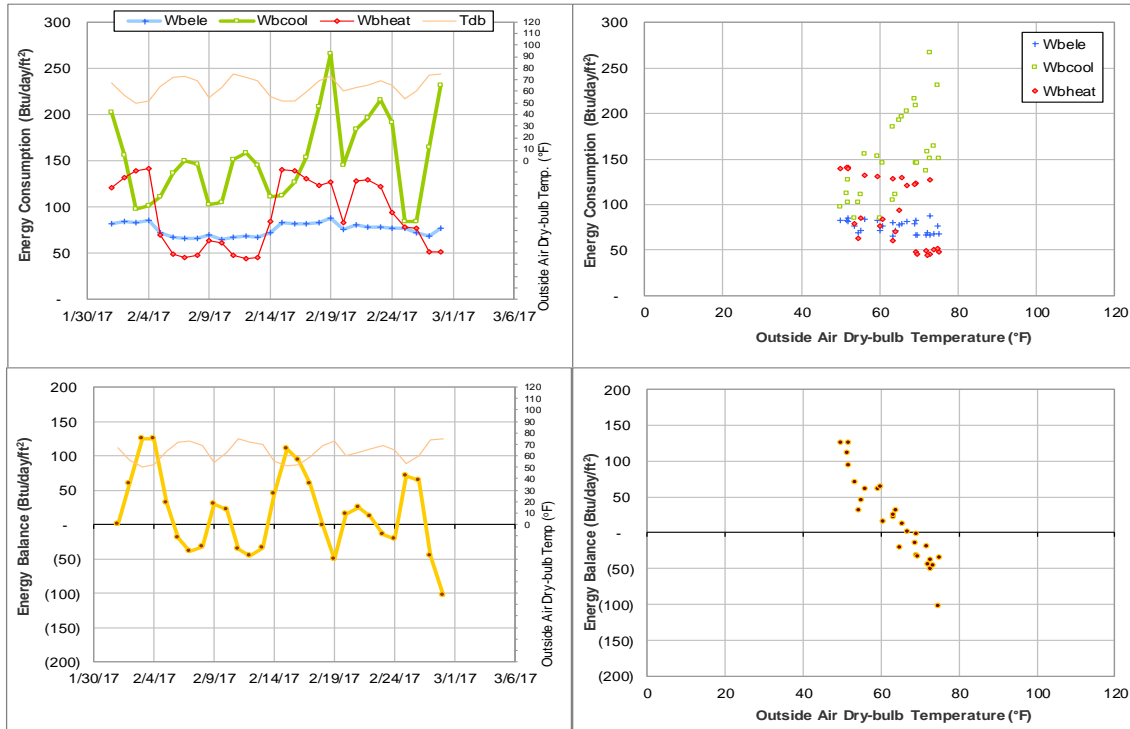


Figure IV-23 Underwood Residence Hall TAMU BLDG # 394 Energy Balance Plot during February 2017

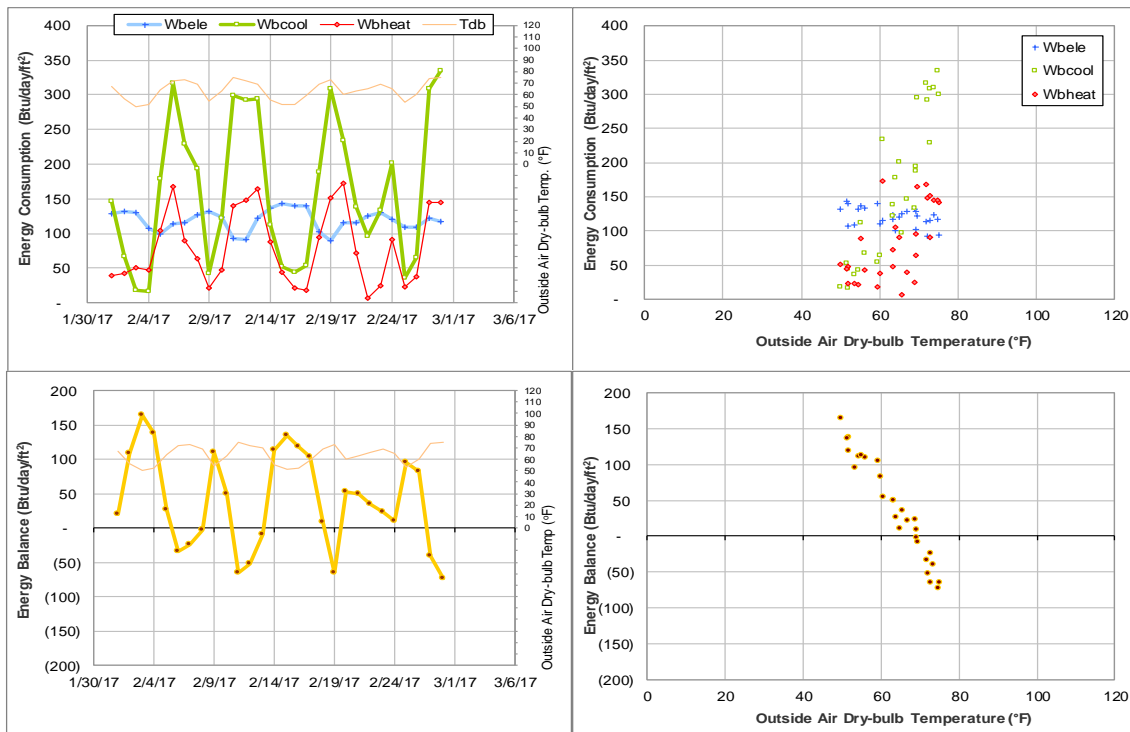


Figure IV-24 Langford Architecture Center Building A TAMU BLDG # 398 Energy Balance Plot during February 2017

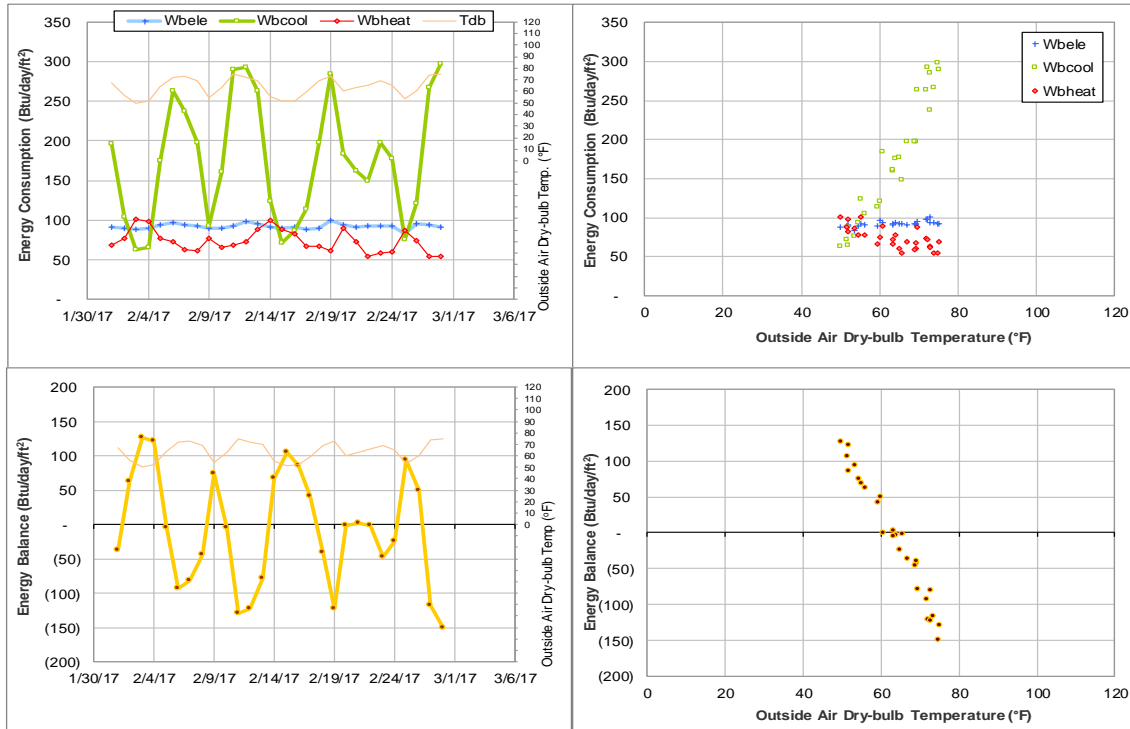


Figure IV-25 Spence Hall, Briggs Hall, and Ash II LLC TAMU BLDG # 400, 402, 1405 Energy Balance Plot during February 2017

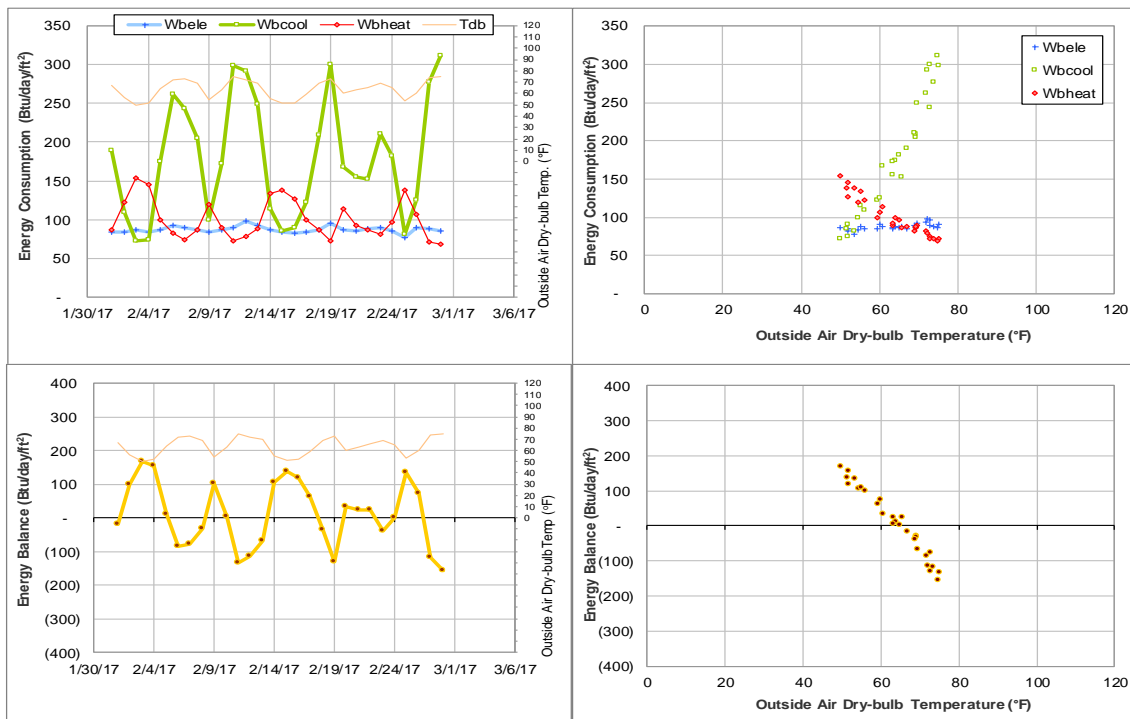


Figure IV-26 Spence Hall Dorm 1 TAMU BLDG # 400 Energy Balance Plot during February 2017

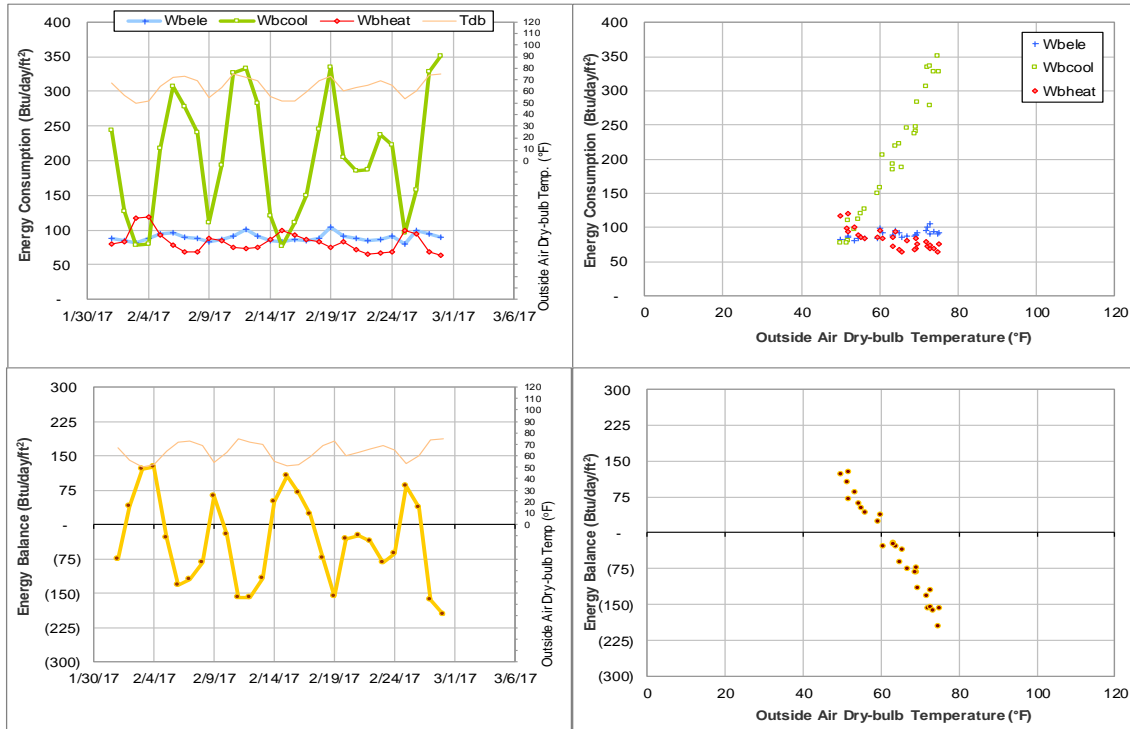


Figure IV-27 Briggs Hall Dorm 3 TAMU BLDG # 402 Energy Balance Plot during February 2017

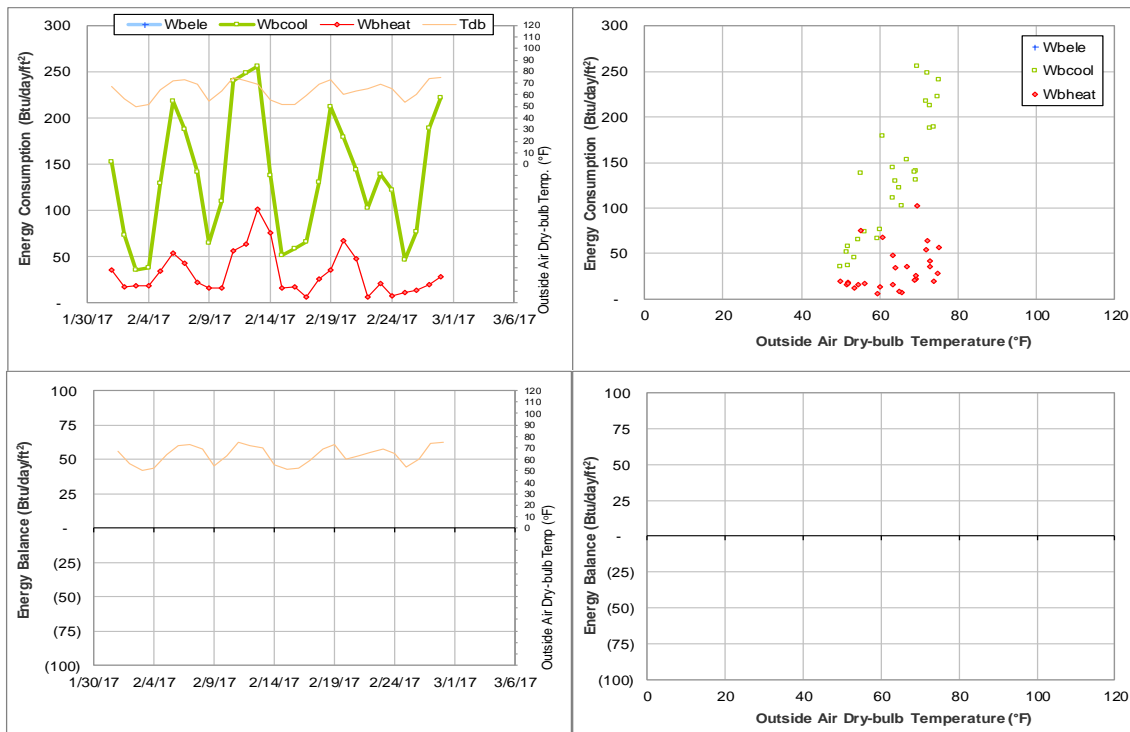


Figure IV-28 Ash II LLC TAMU BLDG # 1405 Energy Balance Plot during February 2017

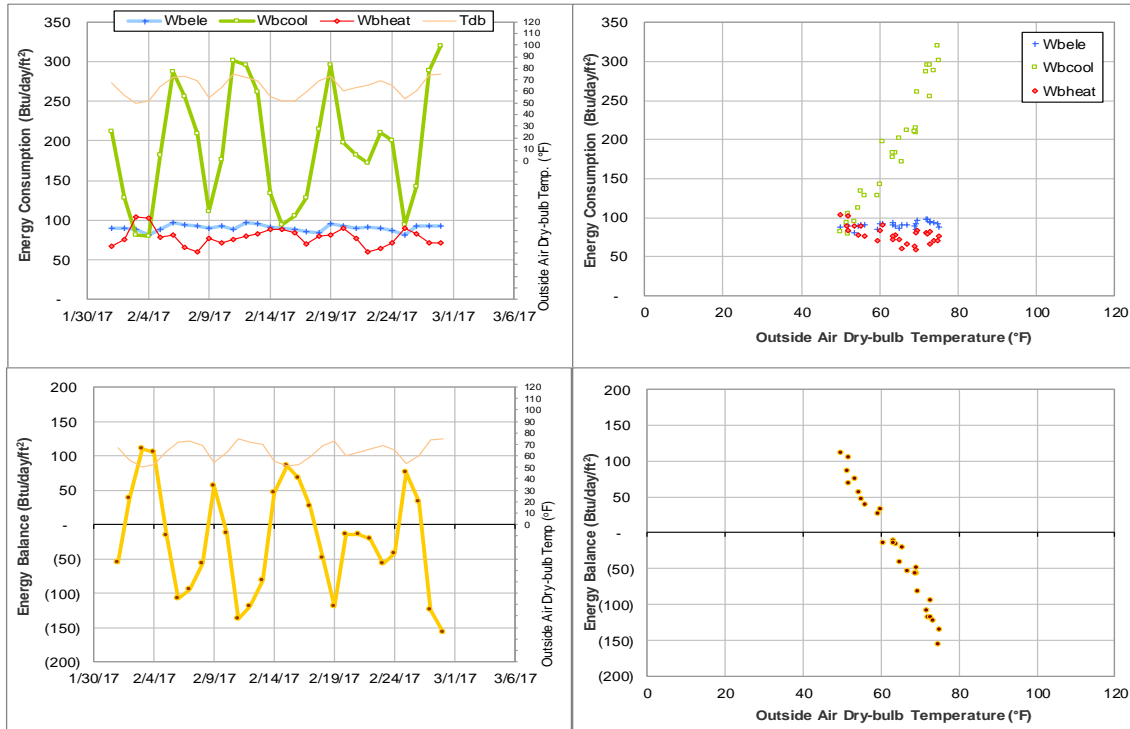


Figure IV-29 Kiest Hall, Fountain Hall, and Plank LLC TAMU BLDG # 401, 403, 1404 Energy Balance Plot during February 2017

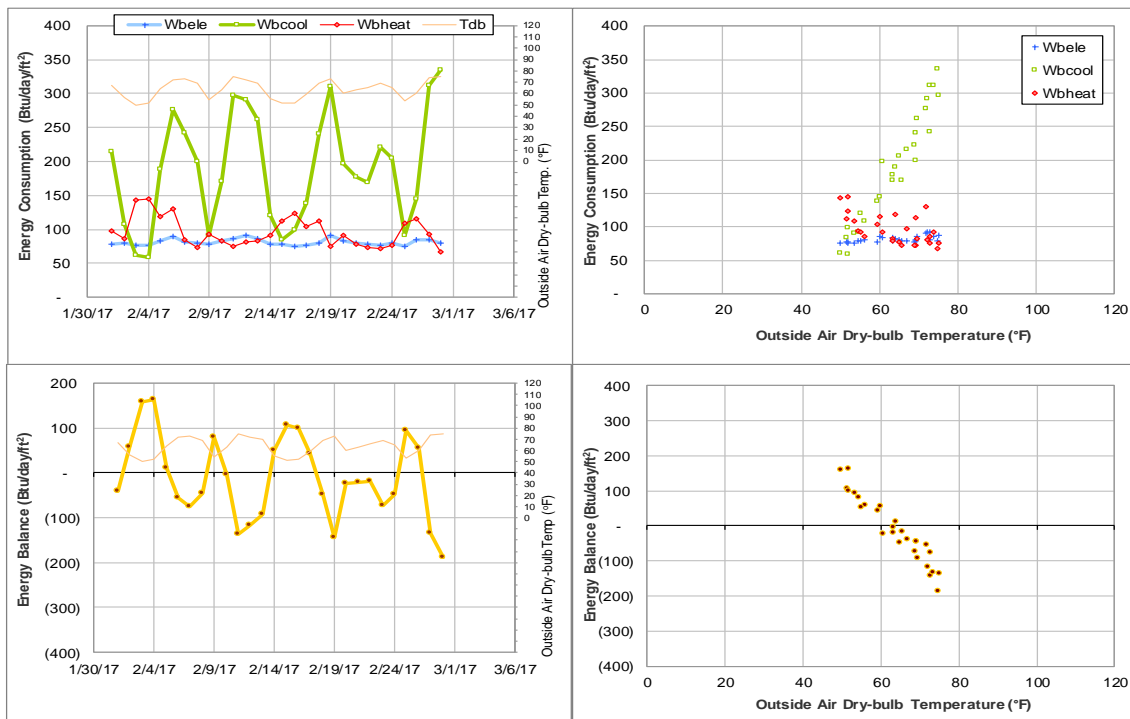


Figure IV-30 Kiest Hall Dorm 2 TAMU BLDG # 401 Energy Balance Plot during February 2017

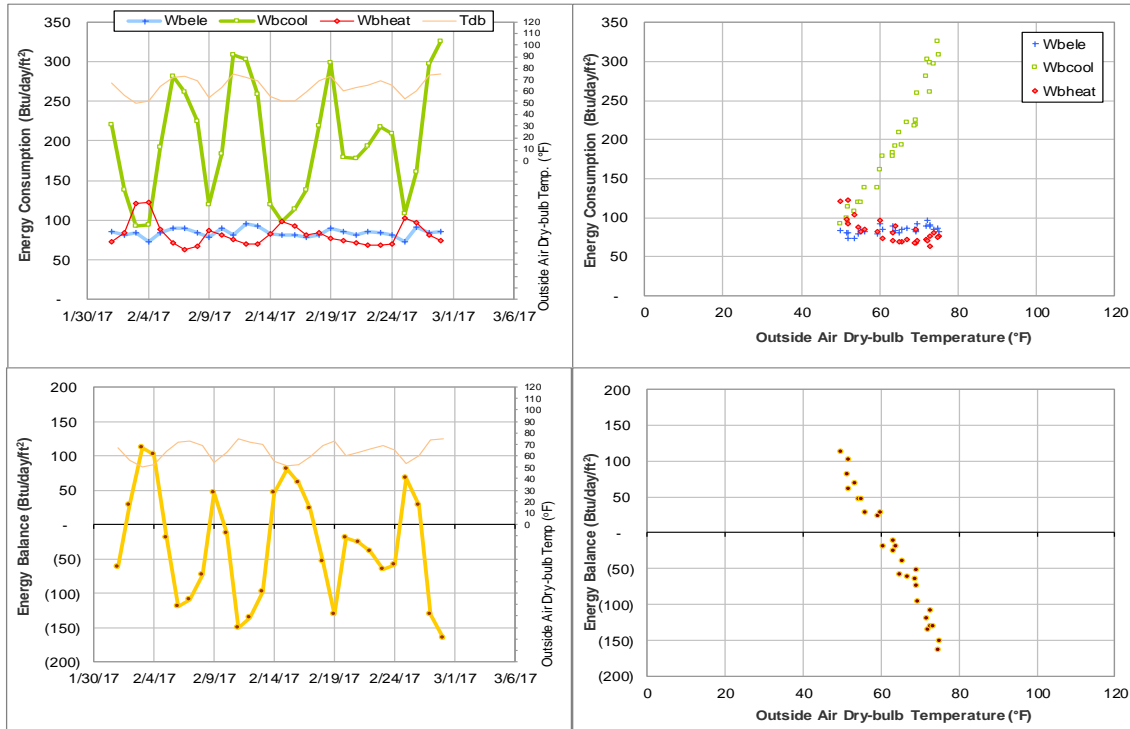


Figure IV-31 Fountain Hall Dorm 4 TAMU BLDG # 403 Energy Balance Plot during February 2017

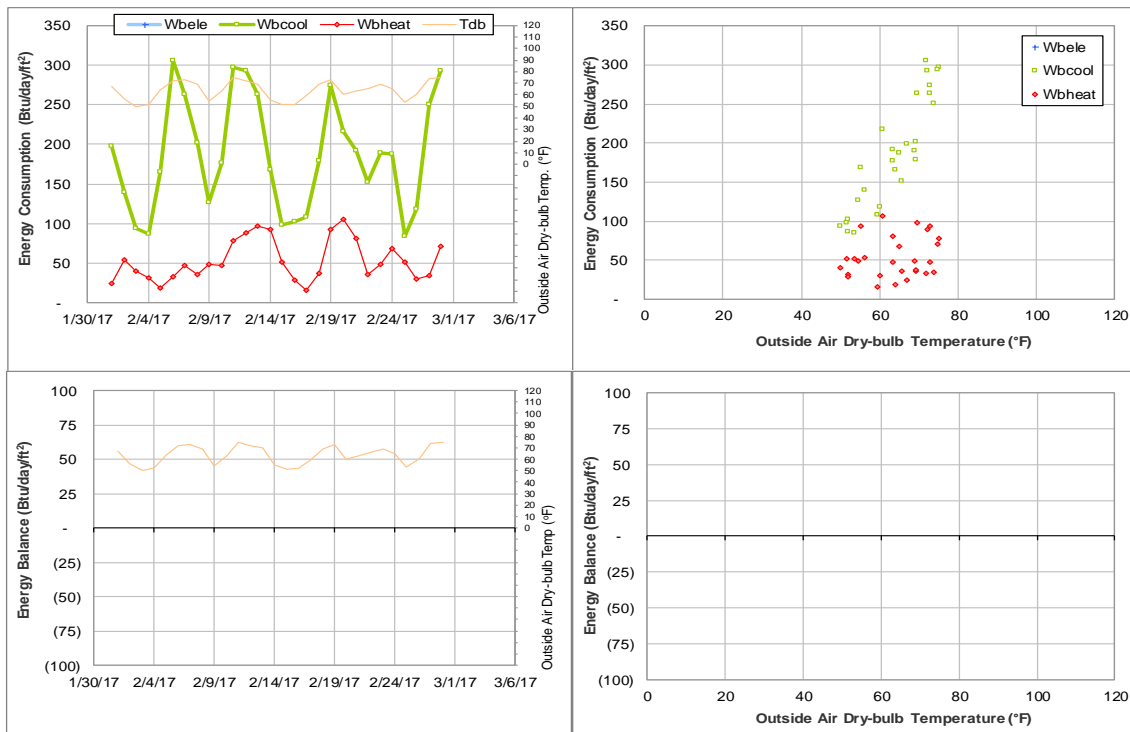


Figure IV-32 Plank LLC TAMU BLDG # 1404 Energy Balance Plot during February 2017

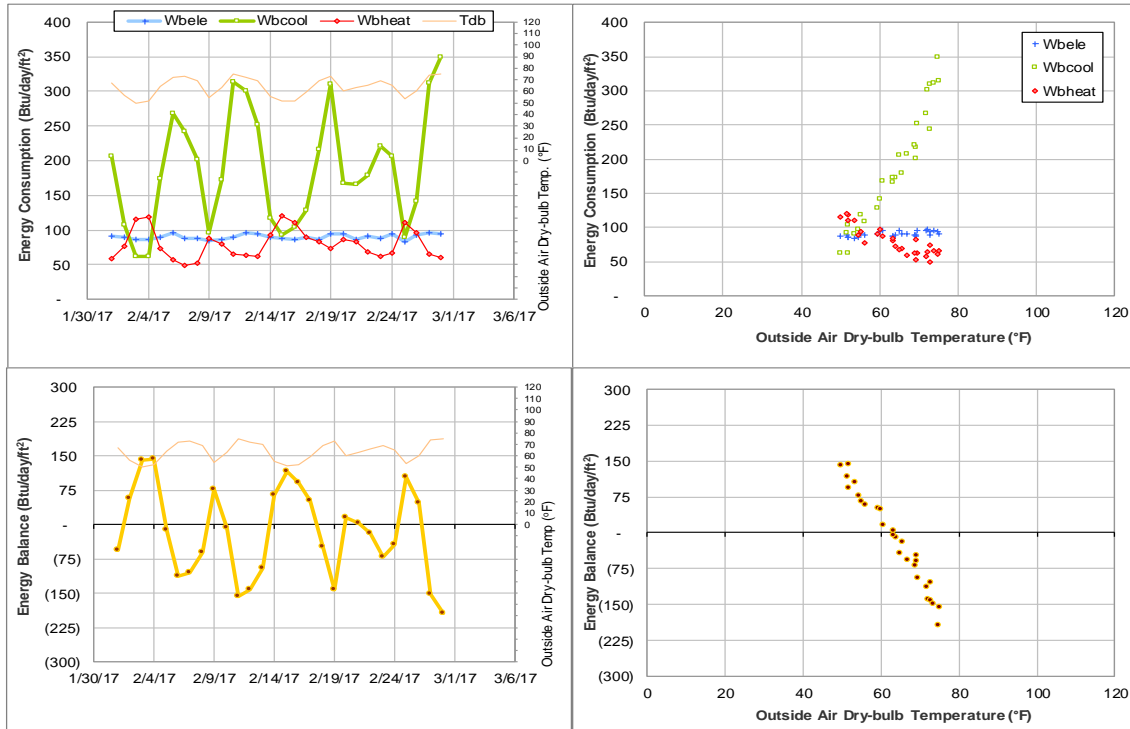


Figure IV-33 Gainer Hall, Leonard Hall and Ash LLC TAMU BLDG # 404, 406, 1403 Energy Balance Plot during February 2017

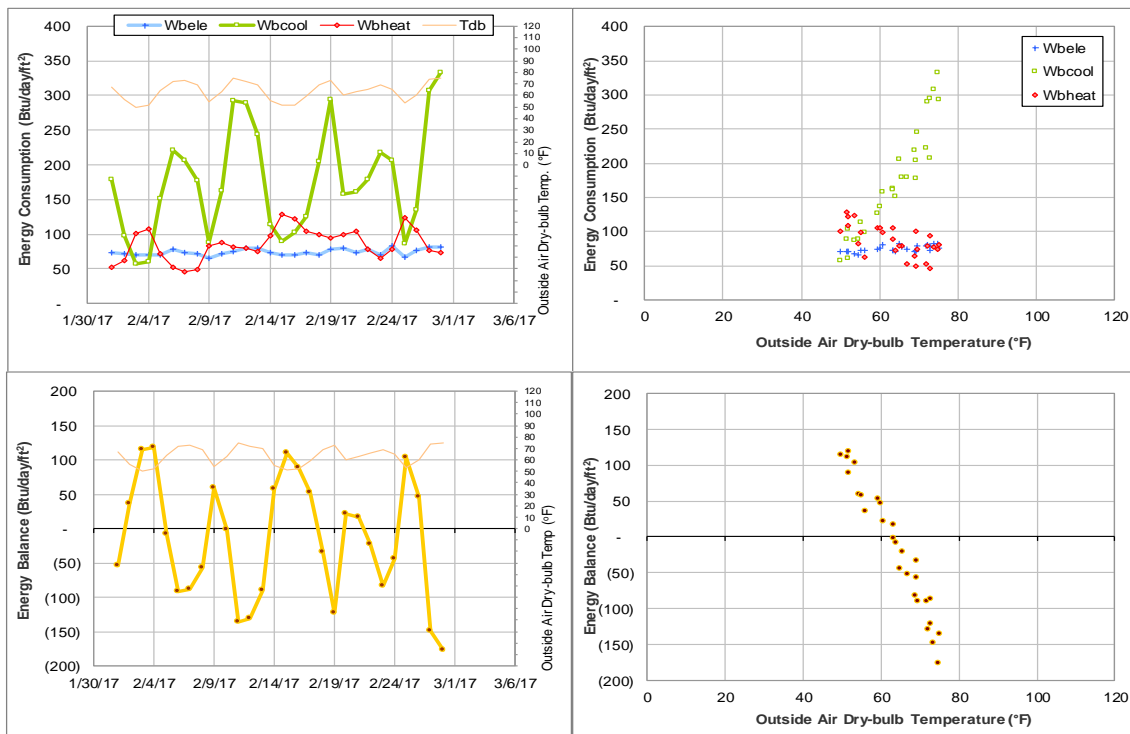


Figure IV-34 Gainer Hall Dorm 5 TAMU BLDG # 404 Energy Balance Plot during February 2017

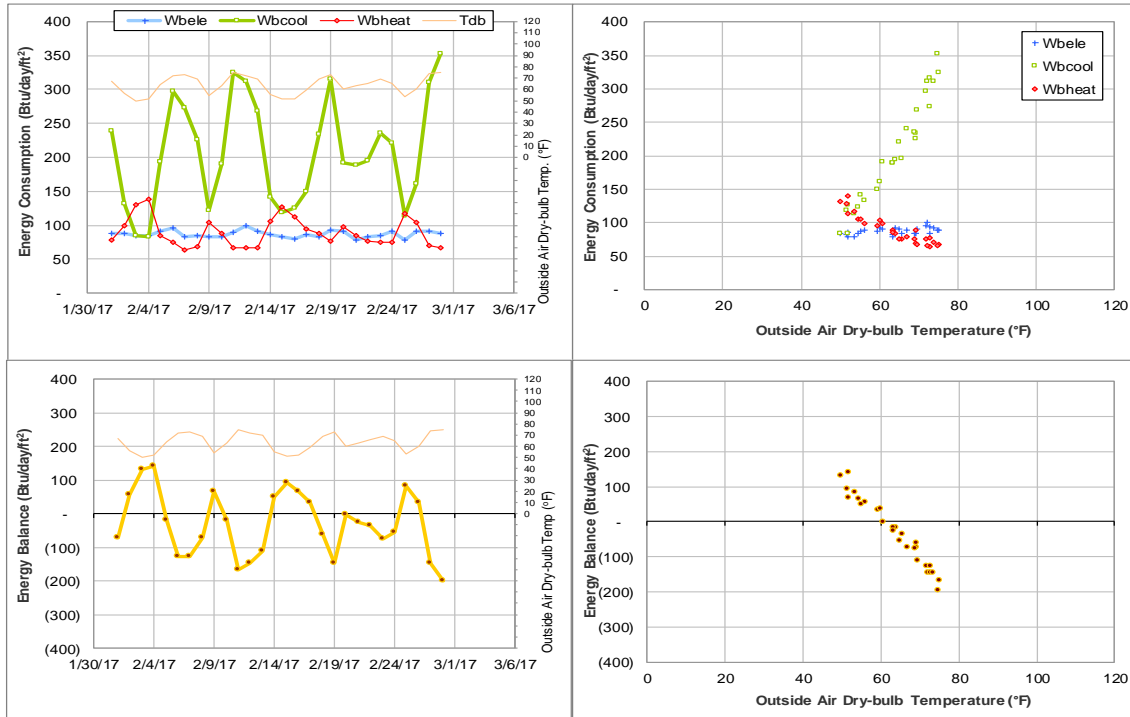


Figure IV-35 Leonard Hall - Dorm 7 TAMU BLDG # 406 Energy Balance Plot during February 2017

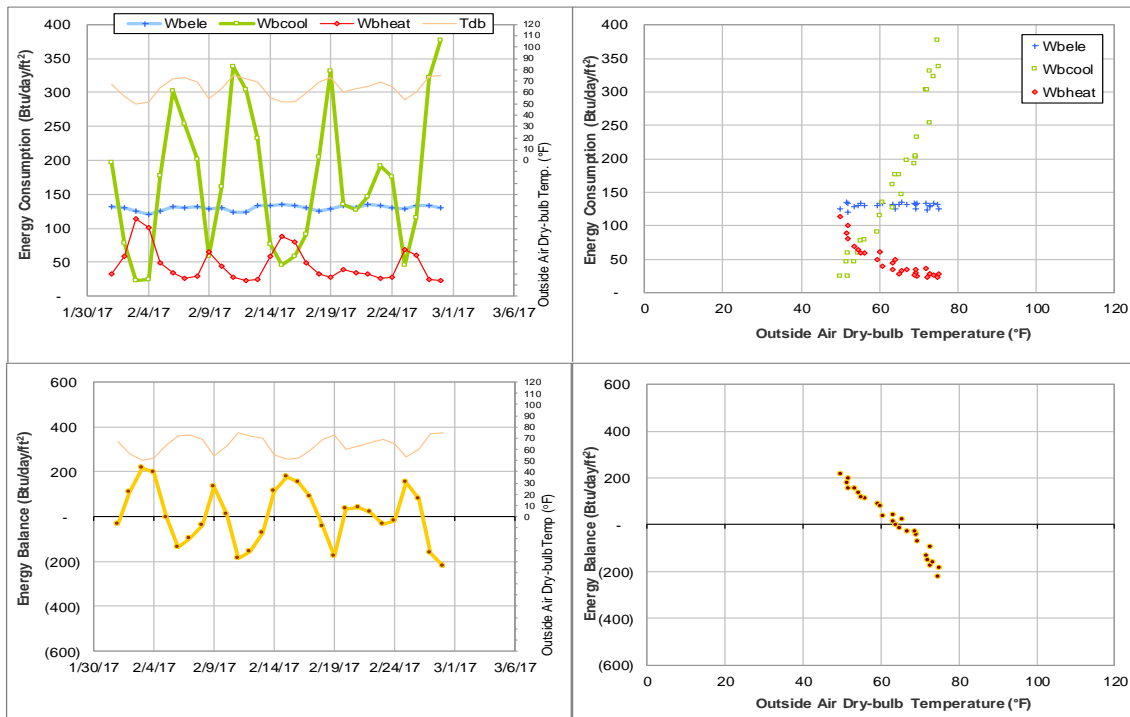


Figure IV-36 H. Grady Ash, Jr. '58 Leadership Learning Center TAMU BLDG # 1403 Energy Balance Plot during February 2017

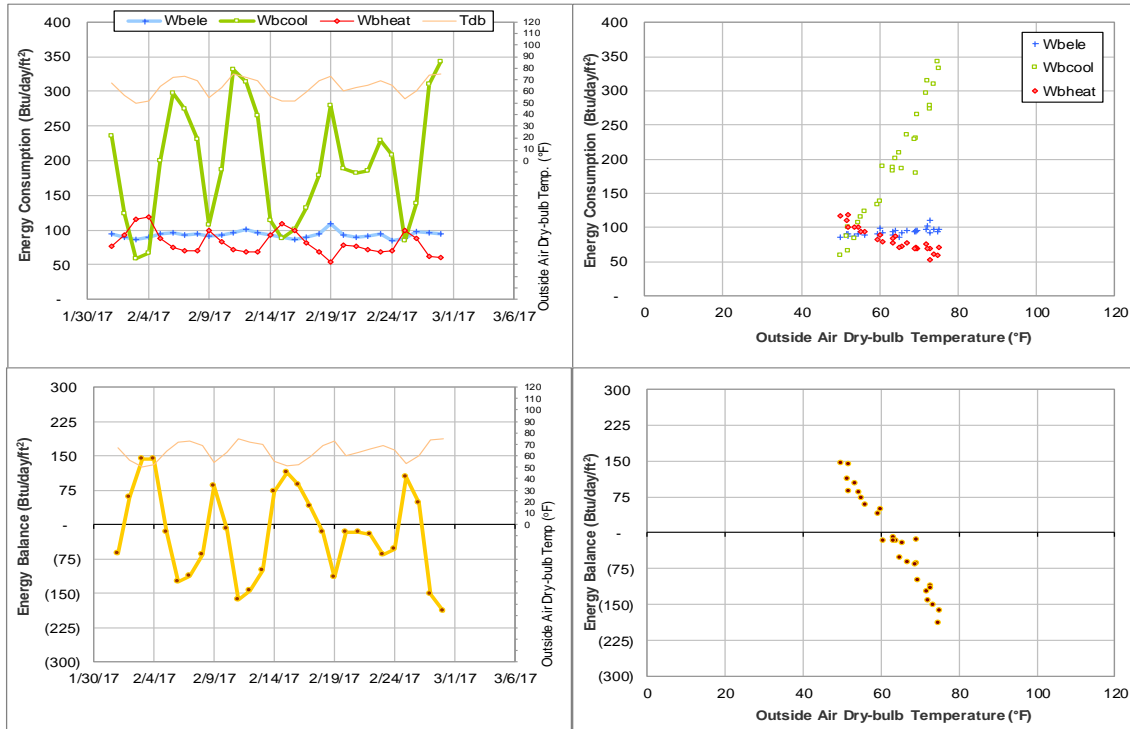


Figure IV-37 Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center TAMU BLDG # 405, 407, 1402 Energy Balance Plot during February 2017

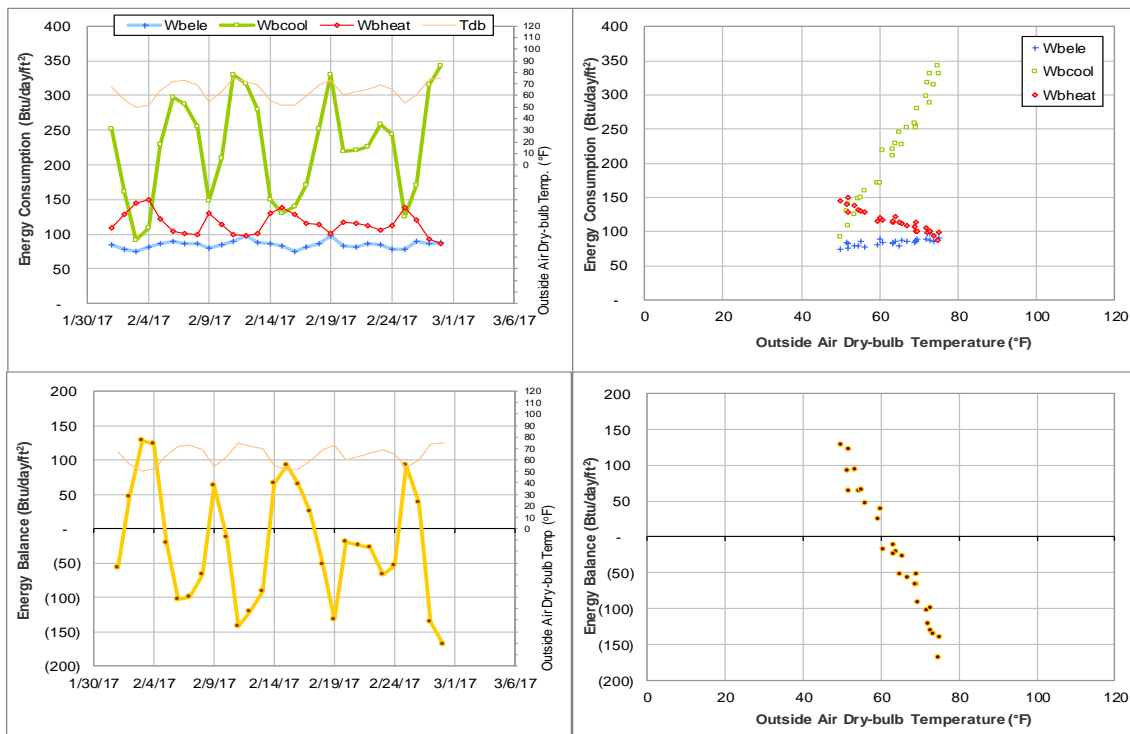


Figure IV-38 Lacy Hall - Dorm 6 TAMU BLDG # 405 Energy Balance Plot during February 2017

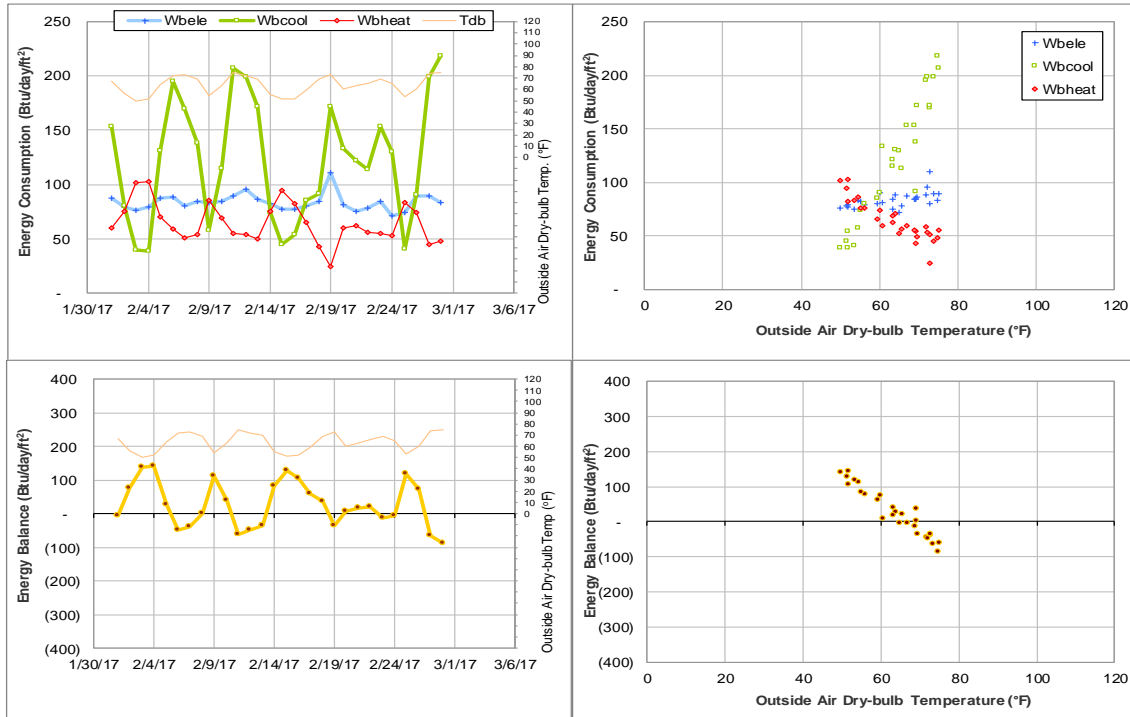


Figure IV-39 Harrell Hall - Dorm 8 TAMU BLDG # 407 Energy Balance Plot during February 2017

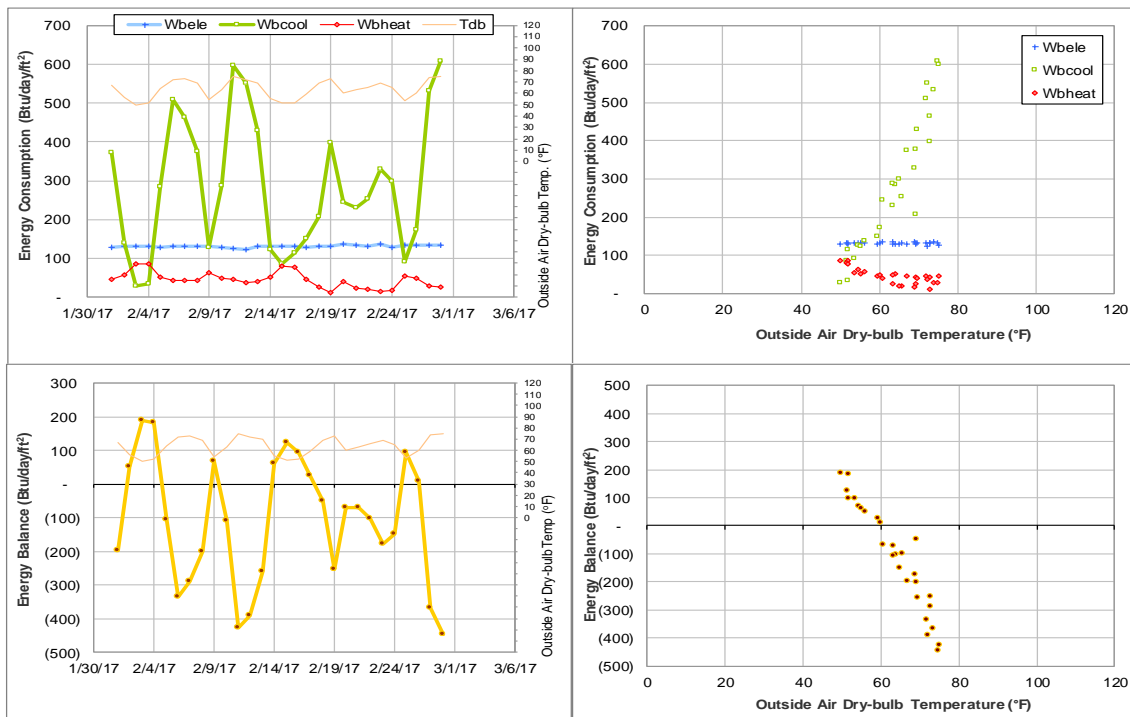


Figure IV-40 Buzbee Leadership Learning Center TAMU BLDG # 1402 Energy Balance Plot during February 2017

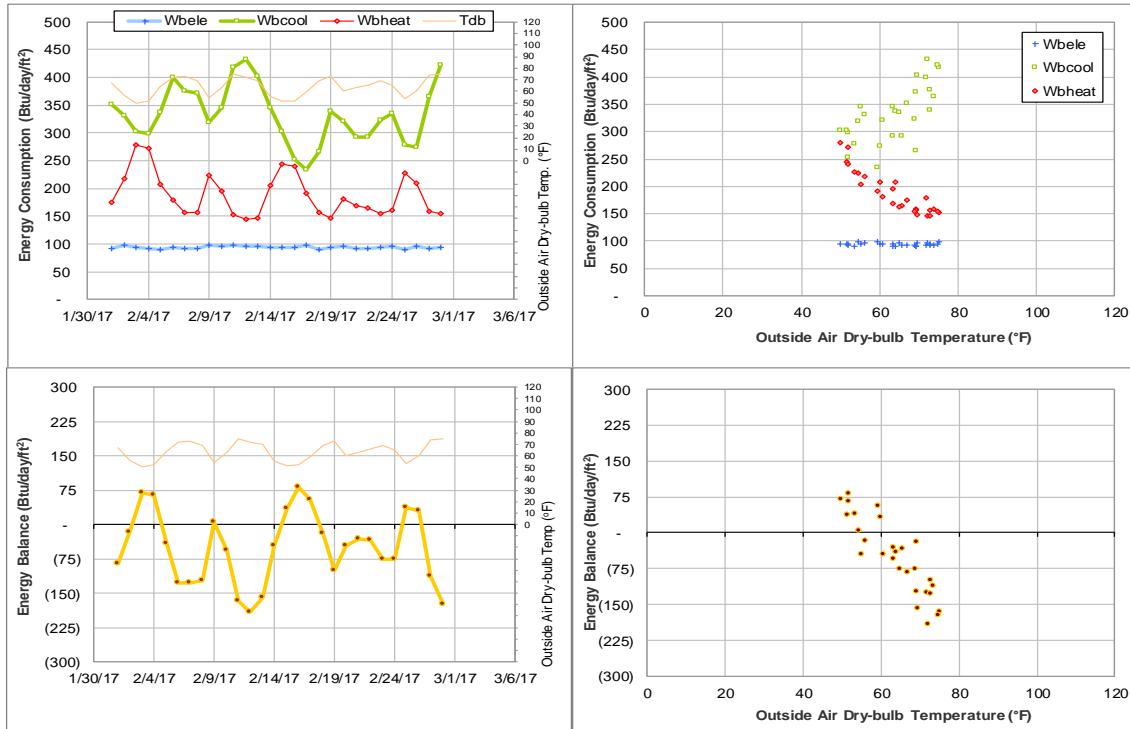


Figure IV-41 Moses Residence Hall TAMU BLDG # 412 Energy Balance Plot during February 2017

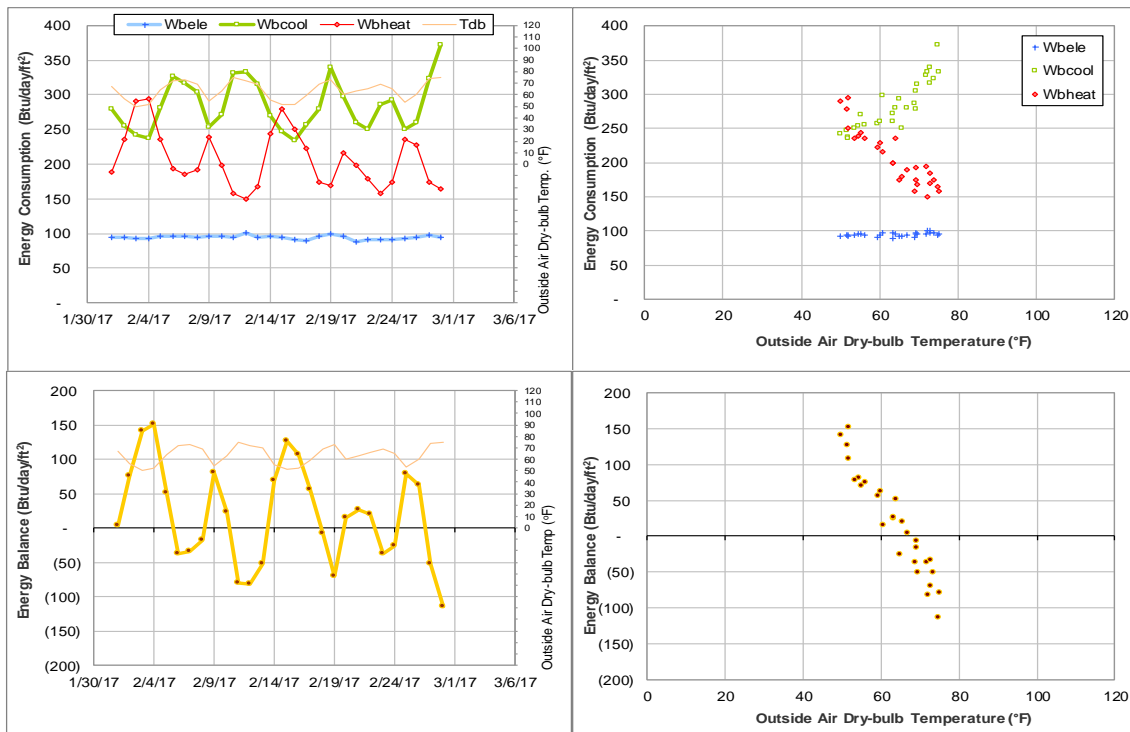


Figure IV-42 Davis-Gary Residence Hall TAMU BLDG # 415 Energy Balance Plot during February 2017

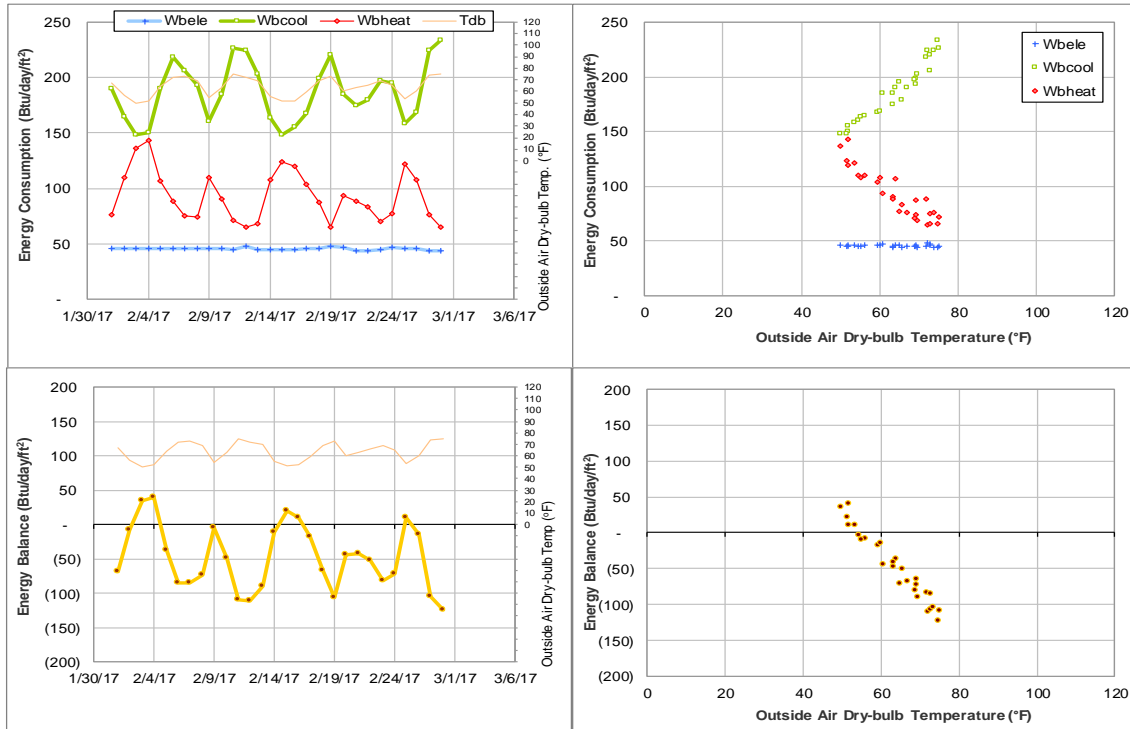


Figure IV-43 Legett Residence Hall TAMU BLDG # 419 Energy Balance Plot during February 2017

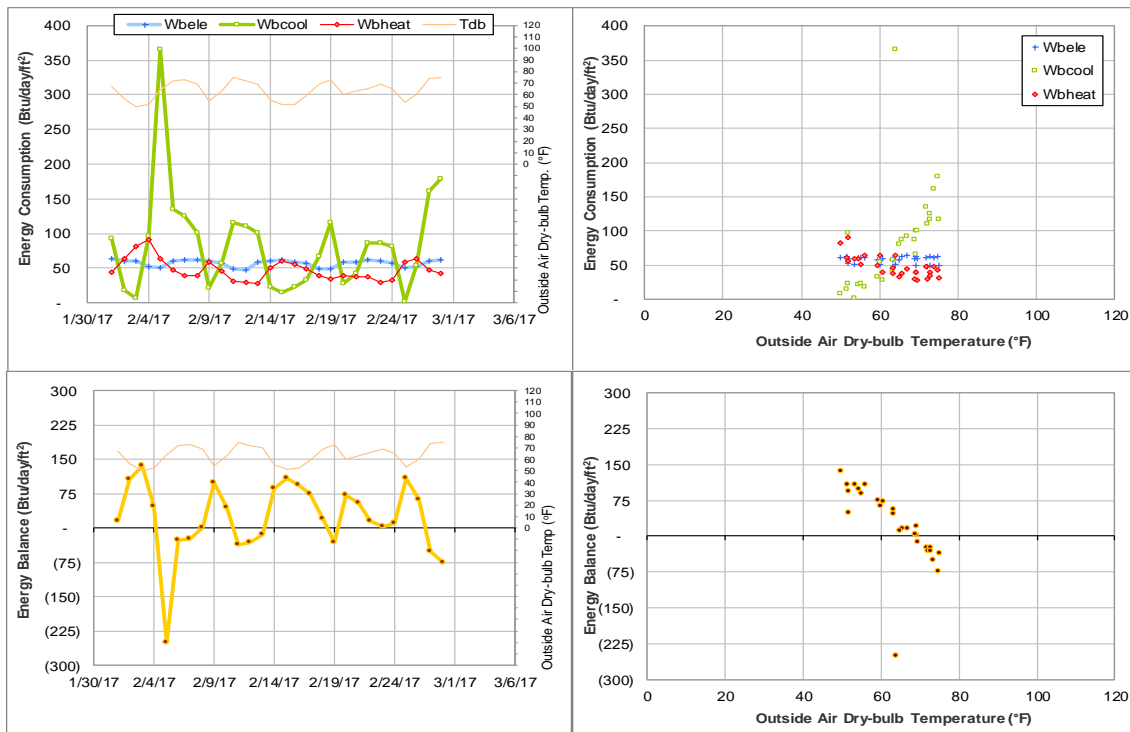


Figure IV-44 Milner Hall TAMU BLDG # 420 Energy Balance Plot during February 2017

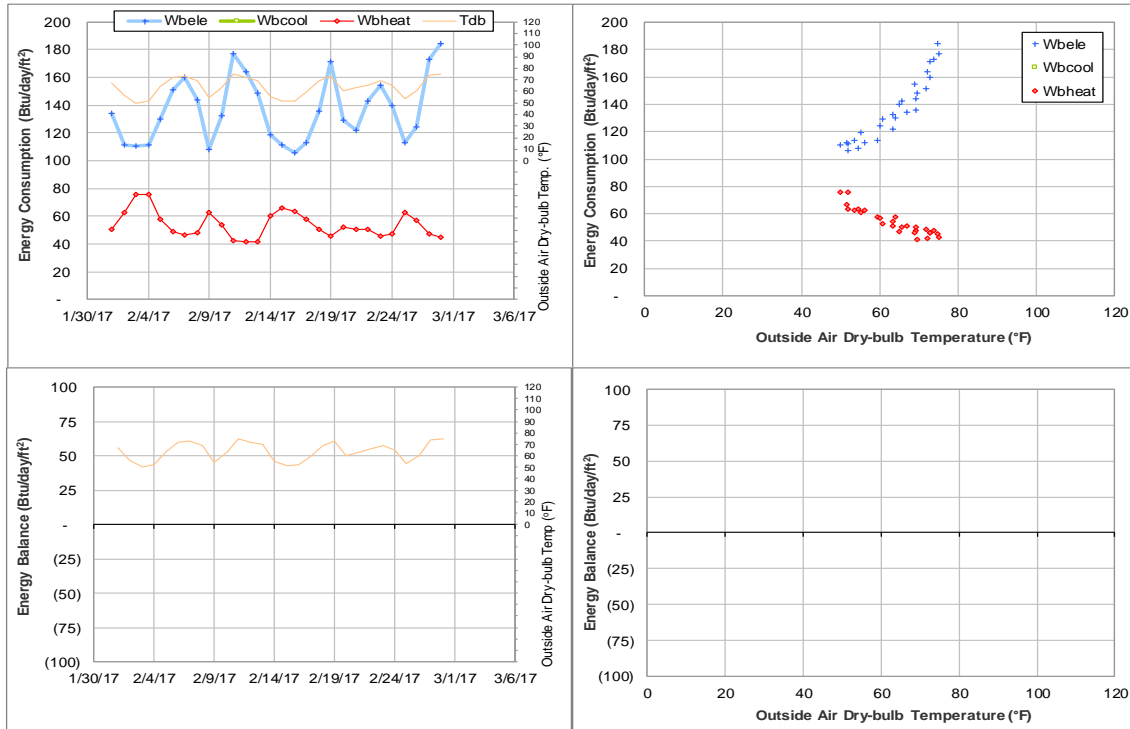


Figure IV-45 Walton Residence Hall TAMU BLDG # 422 Energy Balance Plot during February 2017

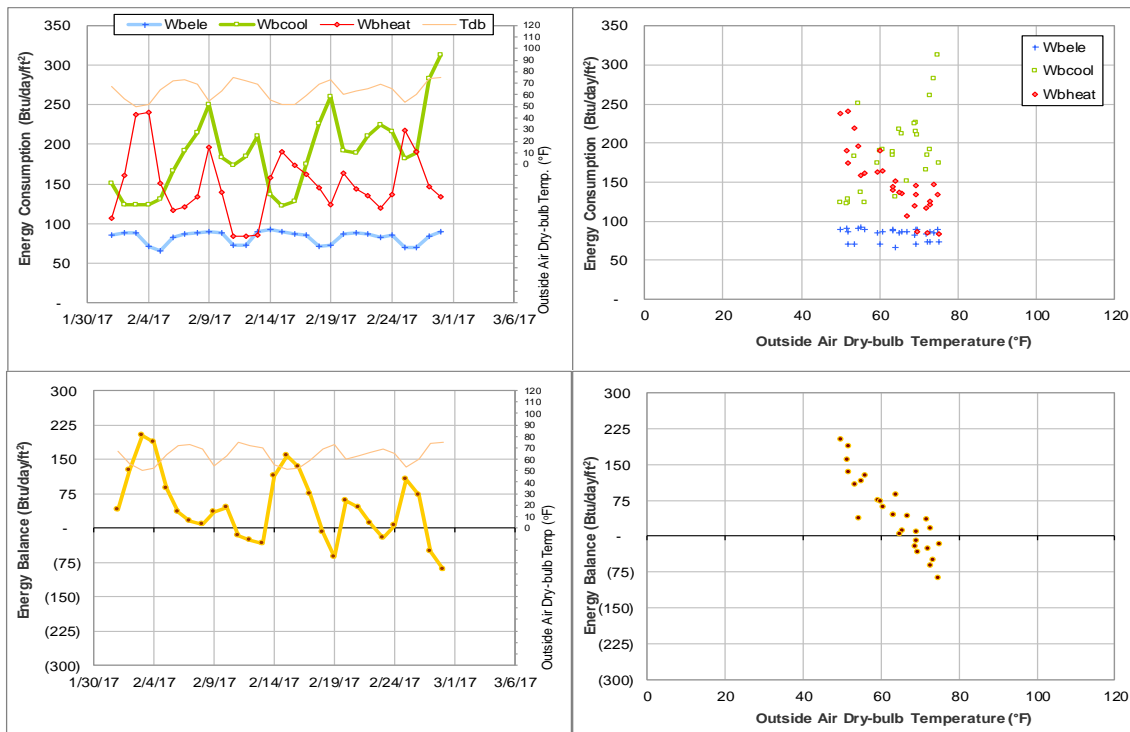


Figure IV-46 Hotard Hall TAMU BLDG # 424 Energy Balance Plot during February 2017

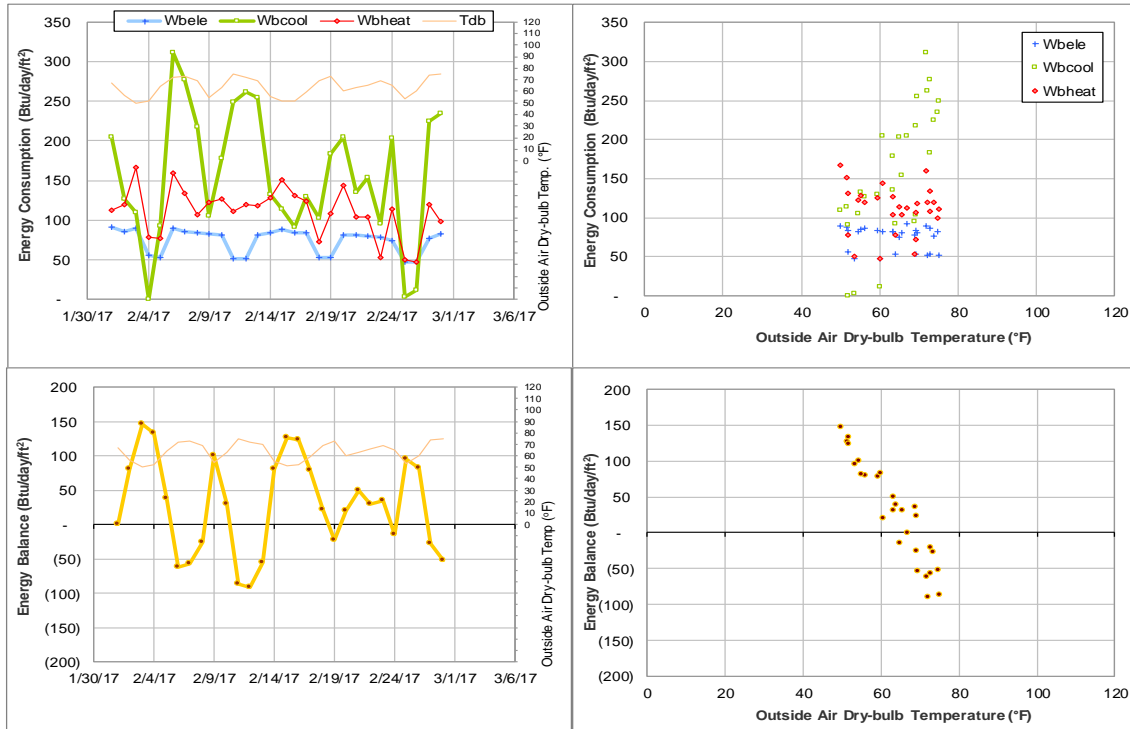


Figure IV-47 Henderson Hall TAMU BLDG # 425 Energy Balance Plot during February 2017

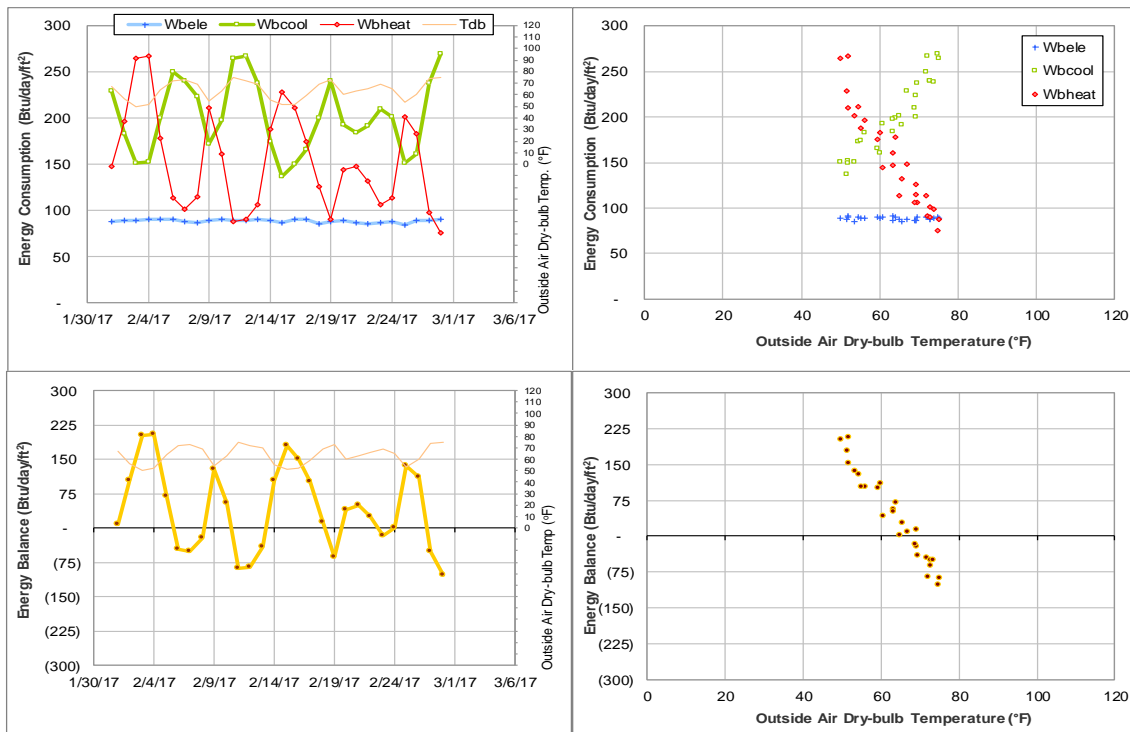


Figure IV-48 FHK Complex TAMU BLDG # 426 Energy Balance Plot during February 2017

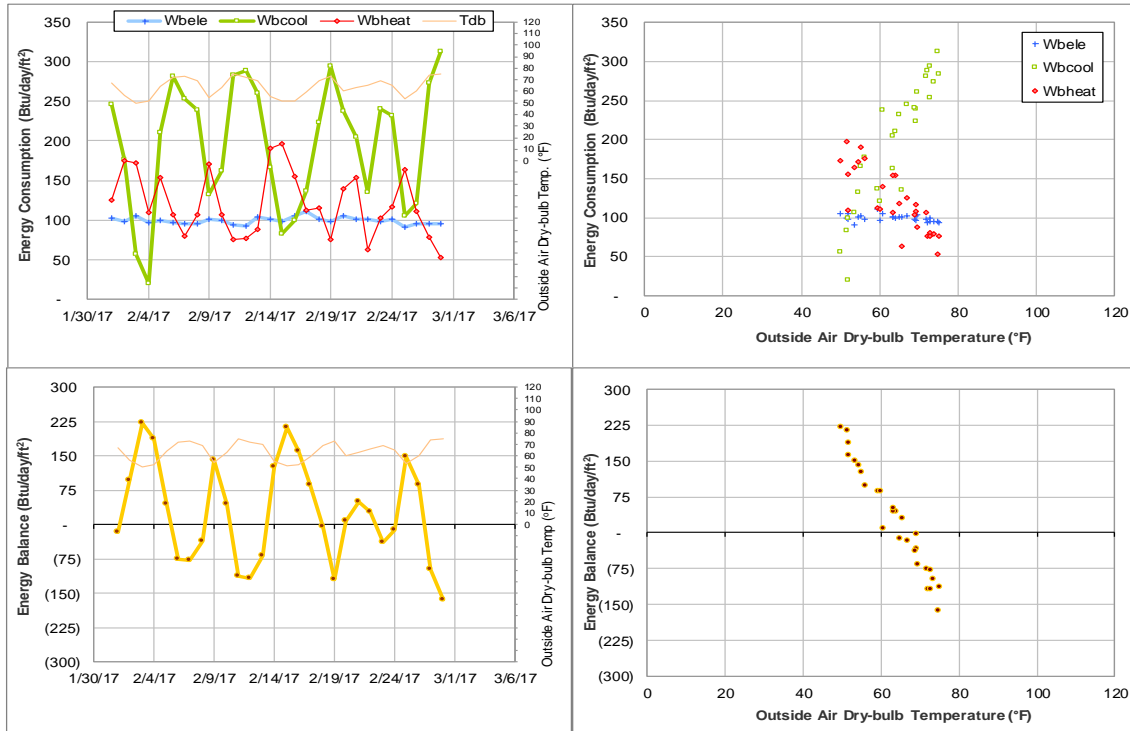


Figure IV-49 Schumacher Residence Hall TAMU BLDG # 430 Energy Balance Plot during February 2017

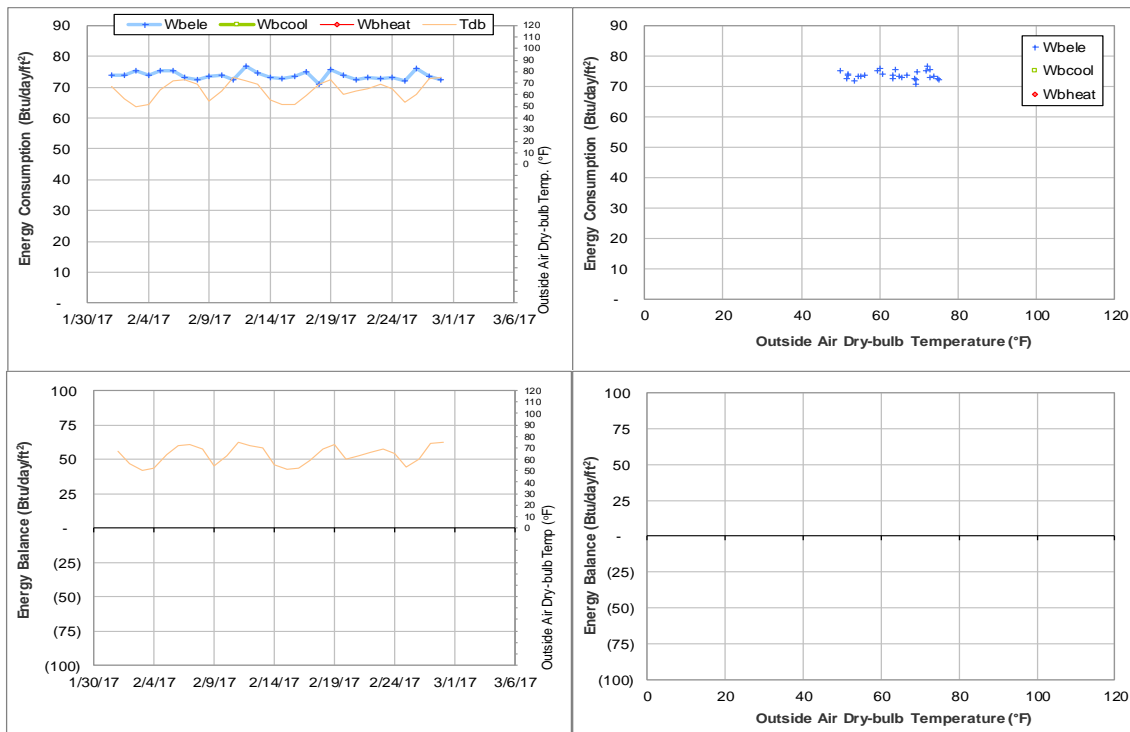


Figure IV-50 Mosher Commons Krueger Dunn Aston TAMU BLDG # 433, 440, 441, 442, 447 Energy Balance Plot during February 2017

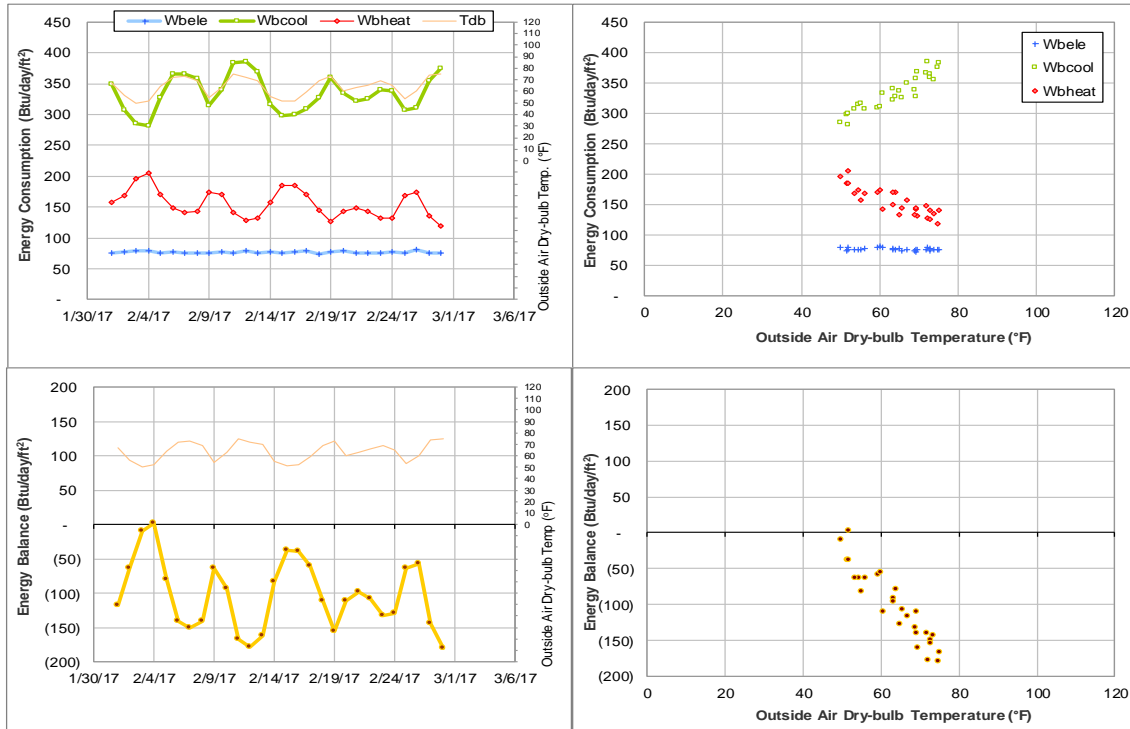


Figure IV-51 Moshier Residence Hall TAMU BLDG # 433 Energy Balance Plot during February 2017

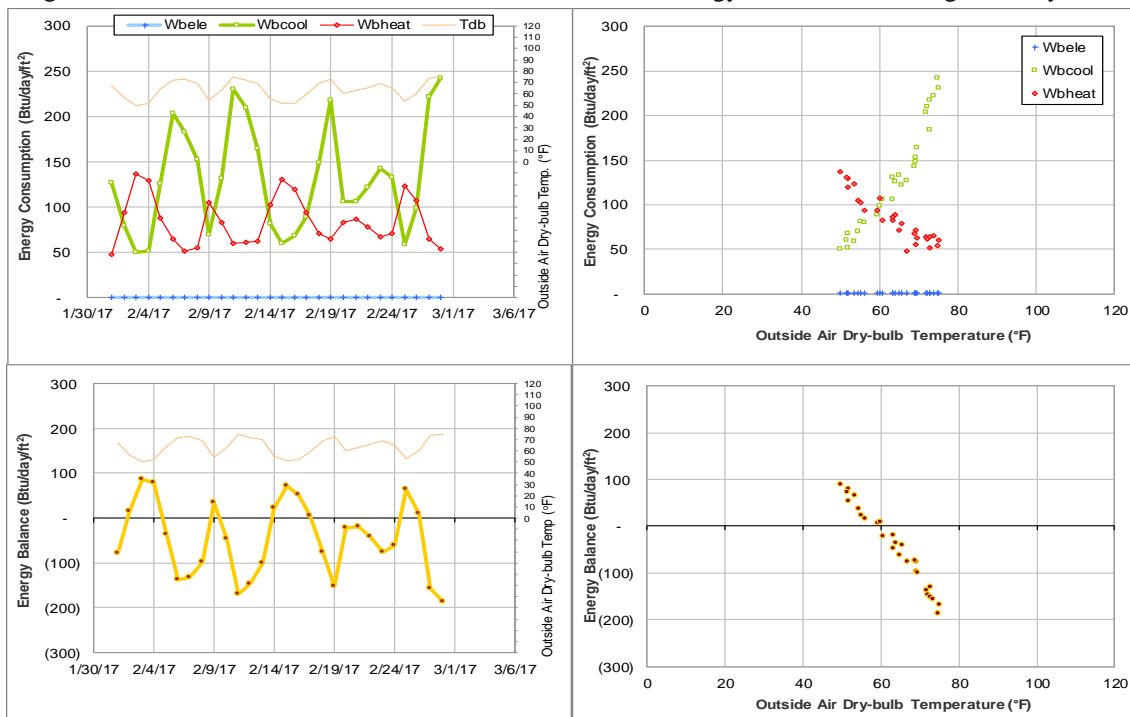


Figure IV-52 Commons Hall TAMU BLDG # 440 Energy Balance Plot during February 2017

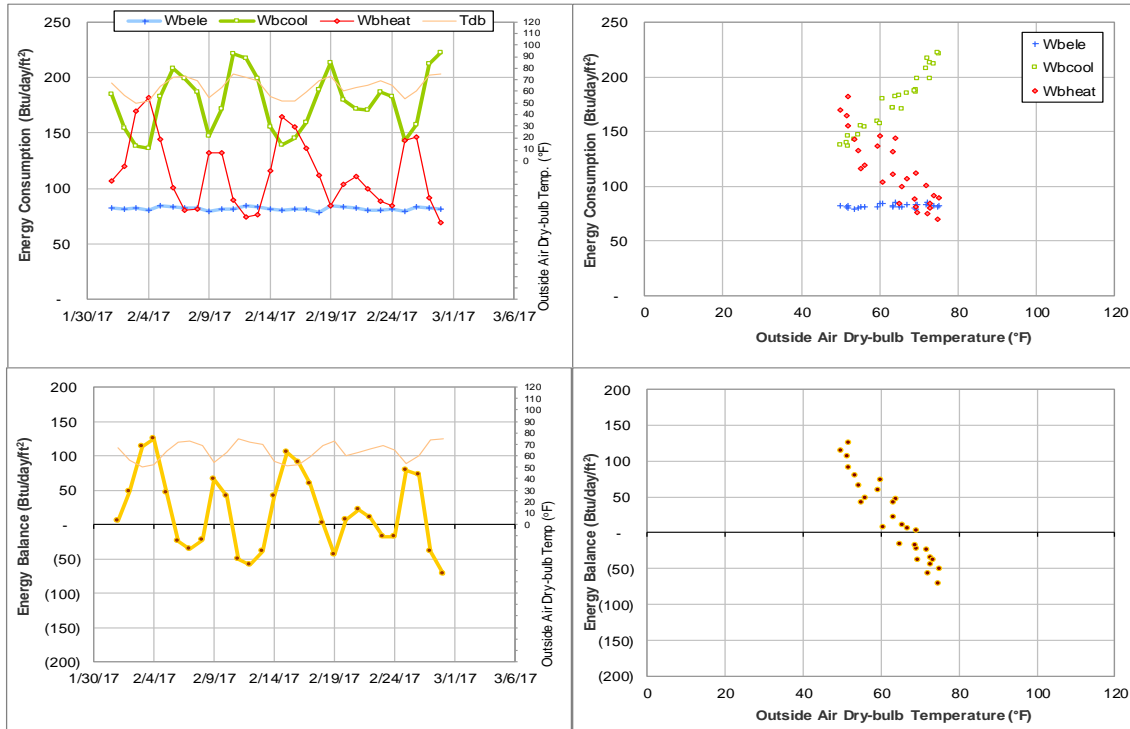


Figure IV-53 Krueger Residence Hall TAMU BLDG # 441 Energy Balance Plot during February 2017

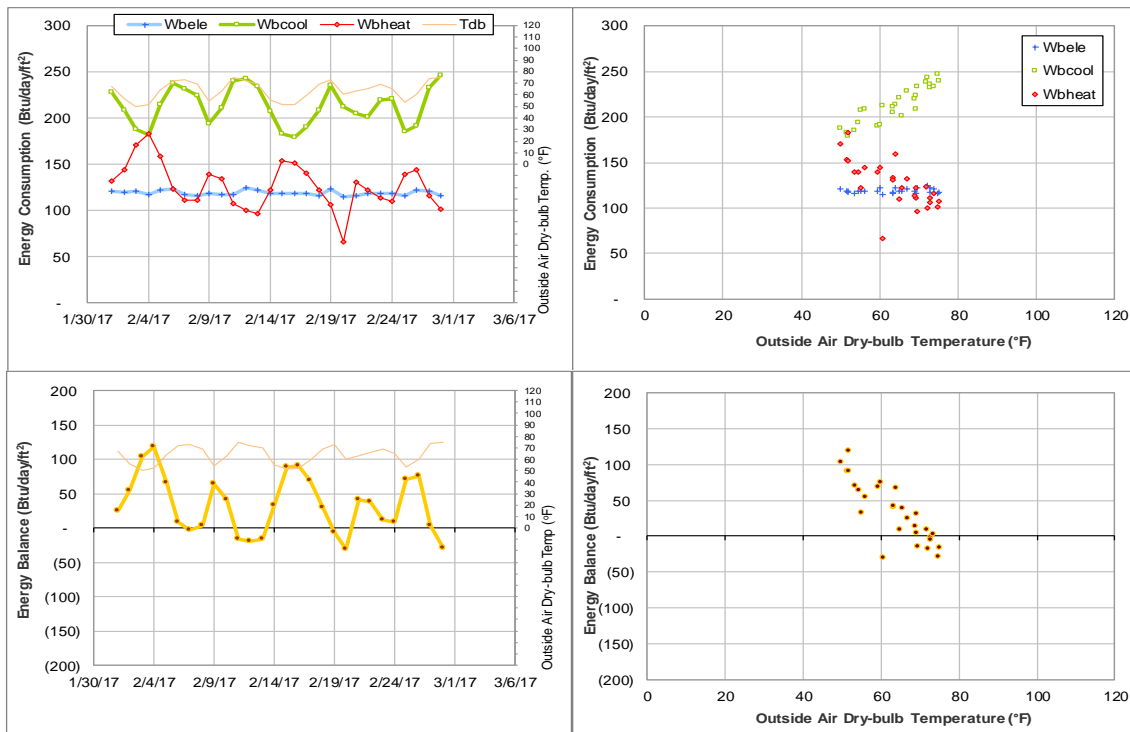


Figure IV-54 Dunn Residence Hall TAMU BLDG # 442 Energy Balance Plot during February 2017

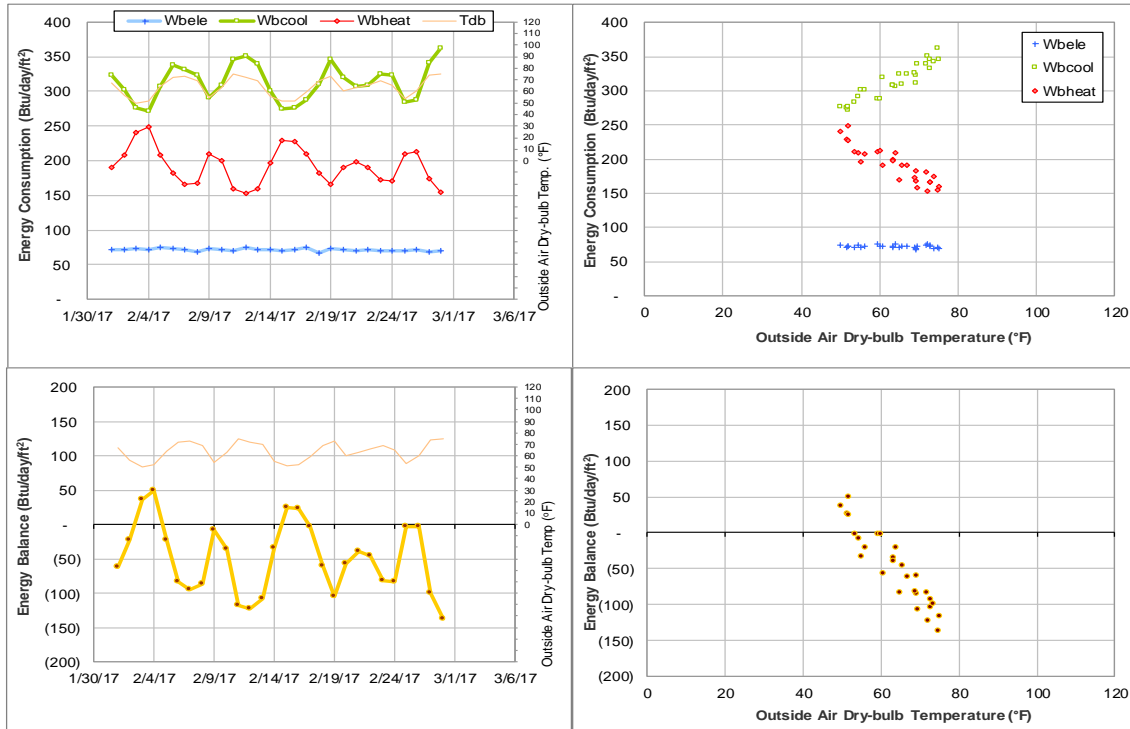


Figure IV-55 Aston Residence Hall TAMU BLDG # 447 Energy Balance Plot during February 2017

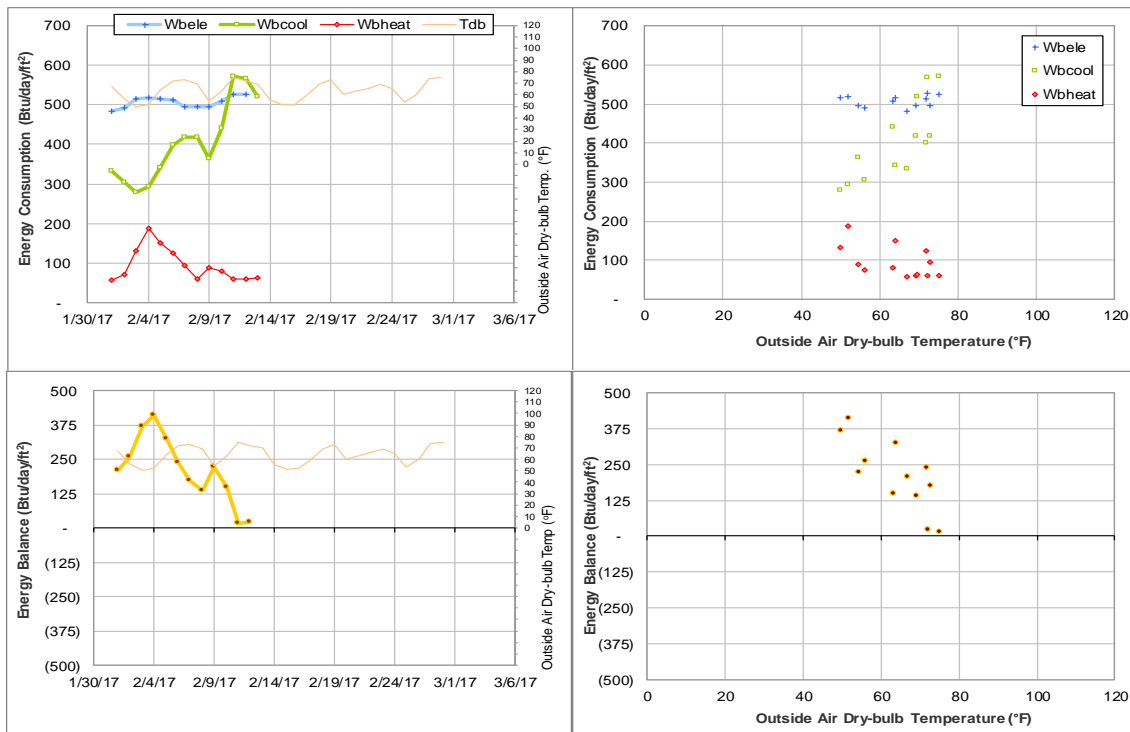


Figure IV-56 Luedcke Building (Cyclotron) TAMU BLDG # 434 Energy Balance Plot during February 2017

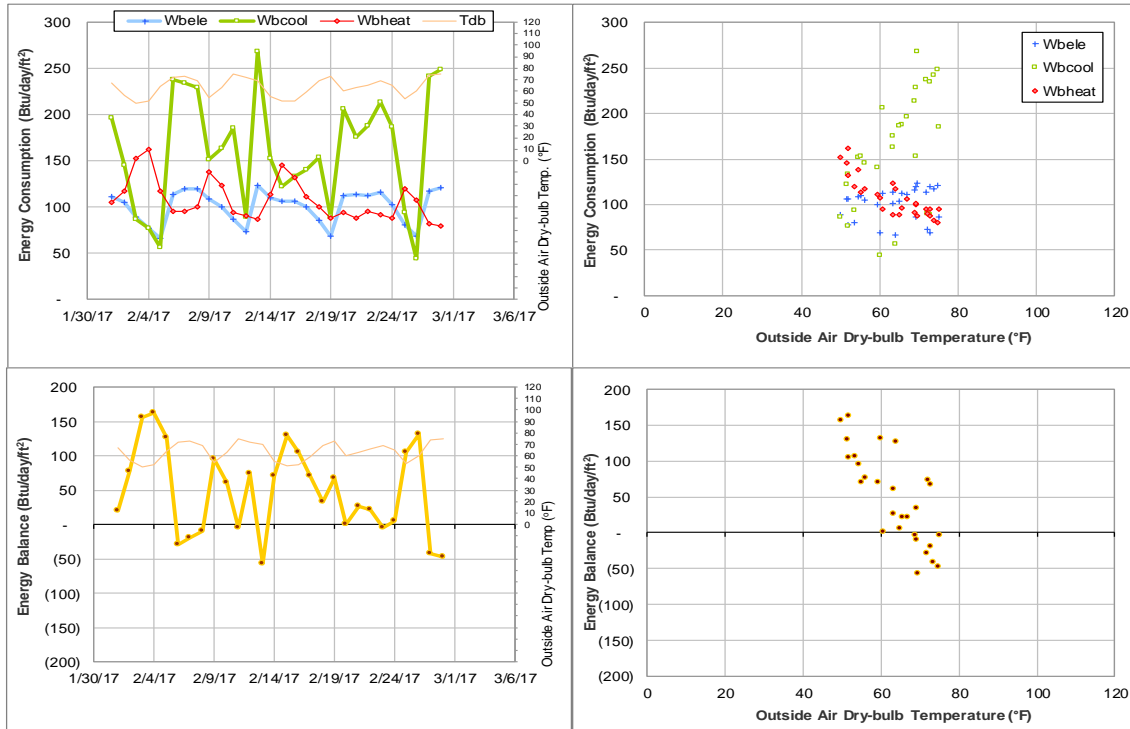


Figure IV-57 Harrington Education Center Office Tower TAMU BLDG # 435 Energy Balance Plot during February 2017

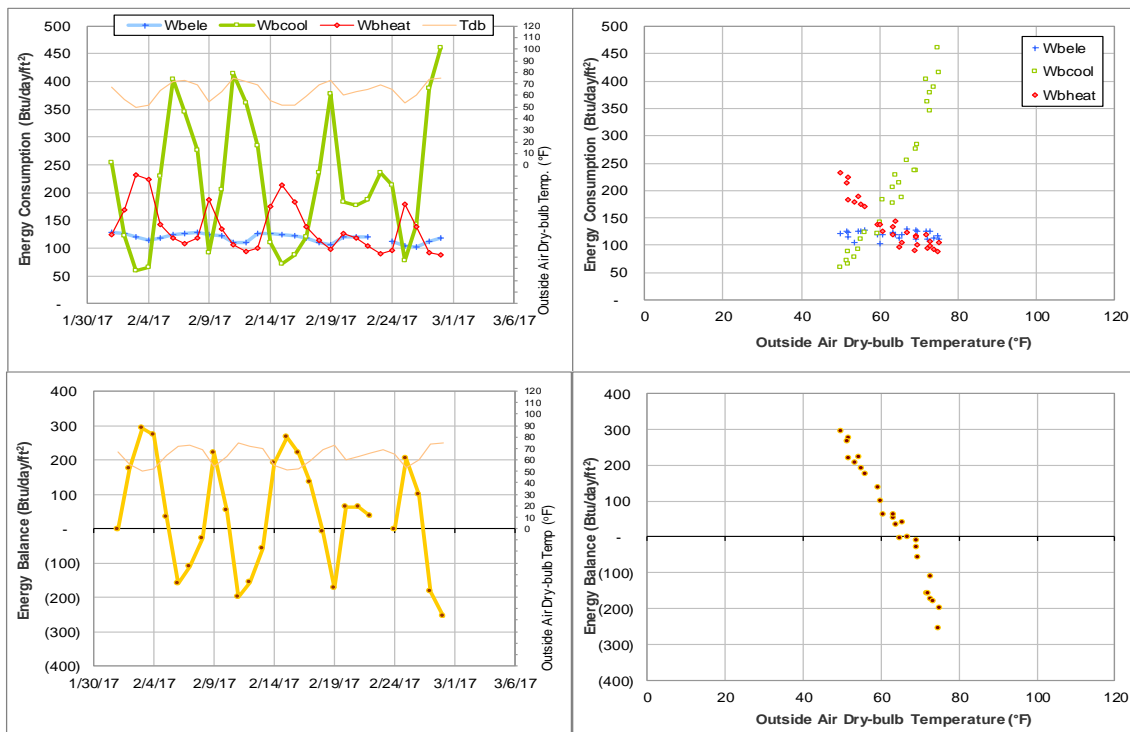


Figure IV-58 Reed-McDonald and Engineering Innovation Center TAMU BLDG # 436 and 499 Energy Balance Plot during February 2017

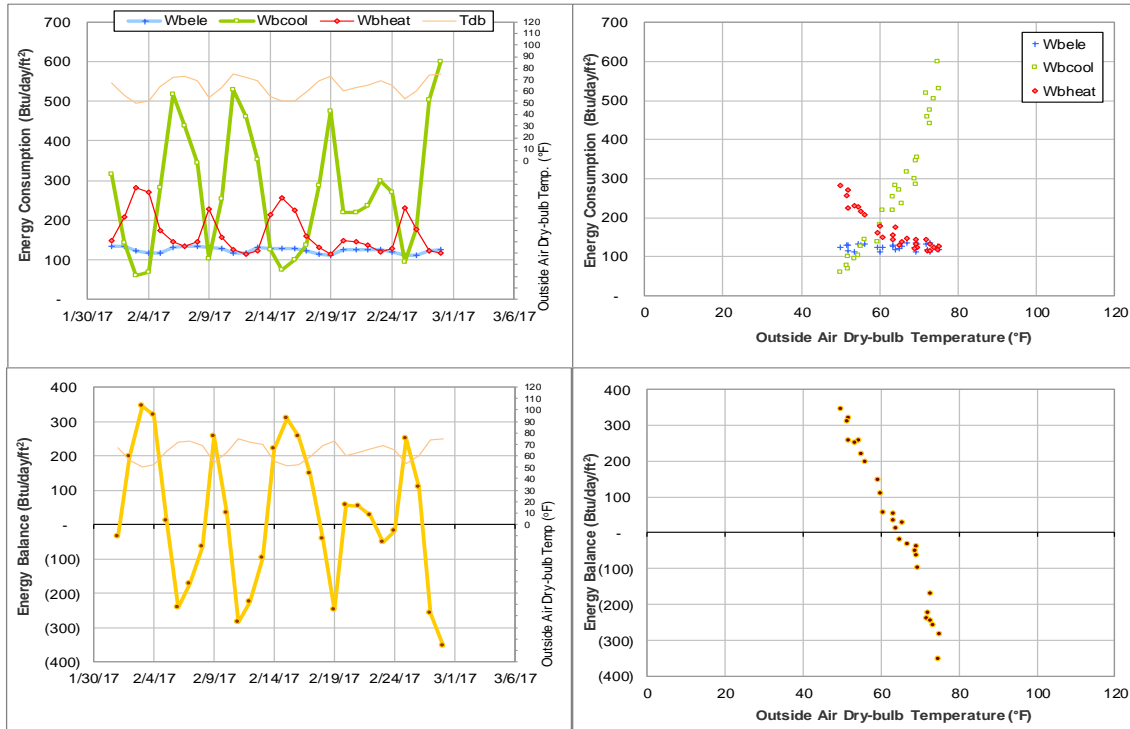


Figure IV-59 Reed-McDonald Building TAMU BLDG # 436 Energy Balance Plot during February 2017

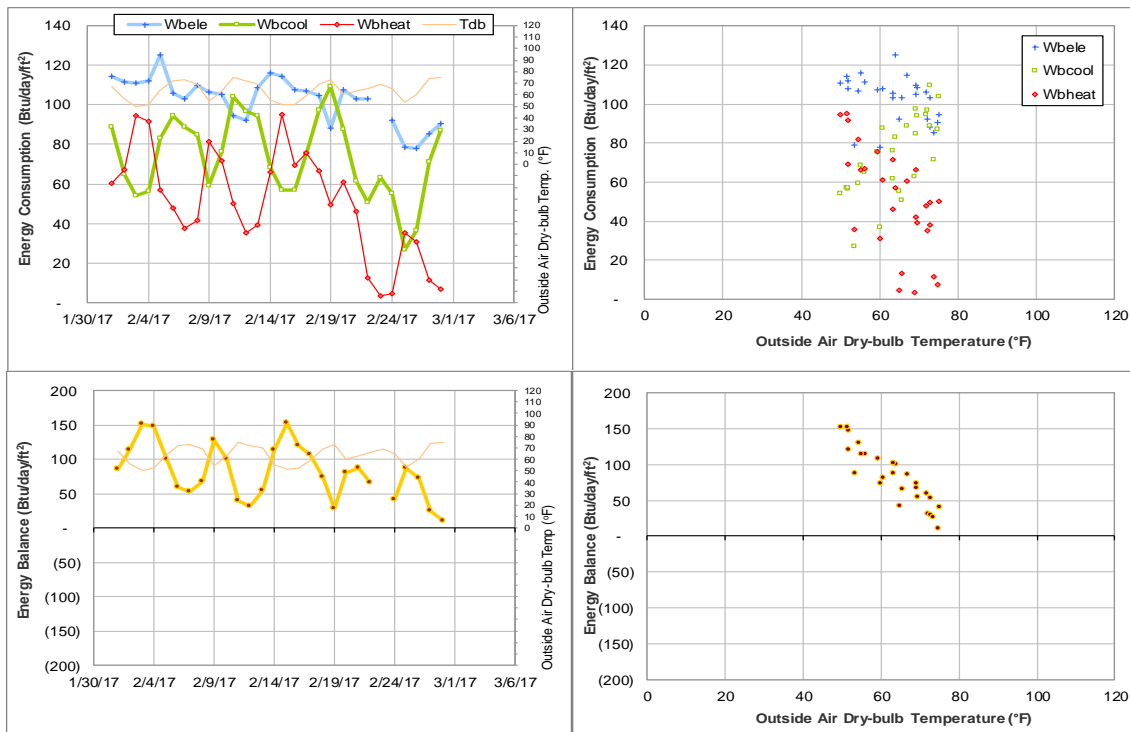


Figure IV-60 Engineering Innovation Center TAMU BLDG # 499 Energy Balance Plot during February 2017

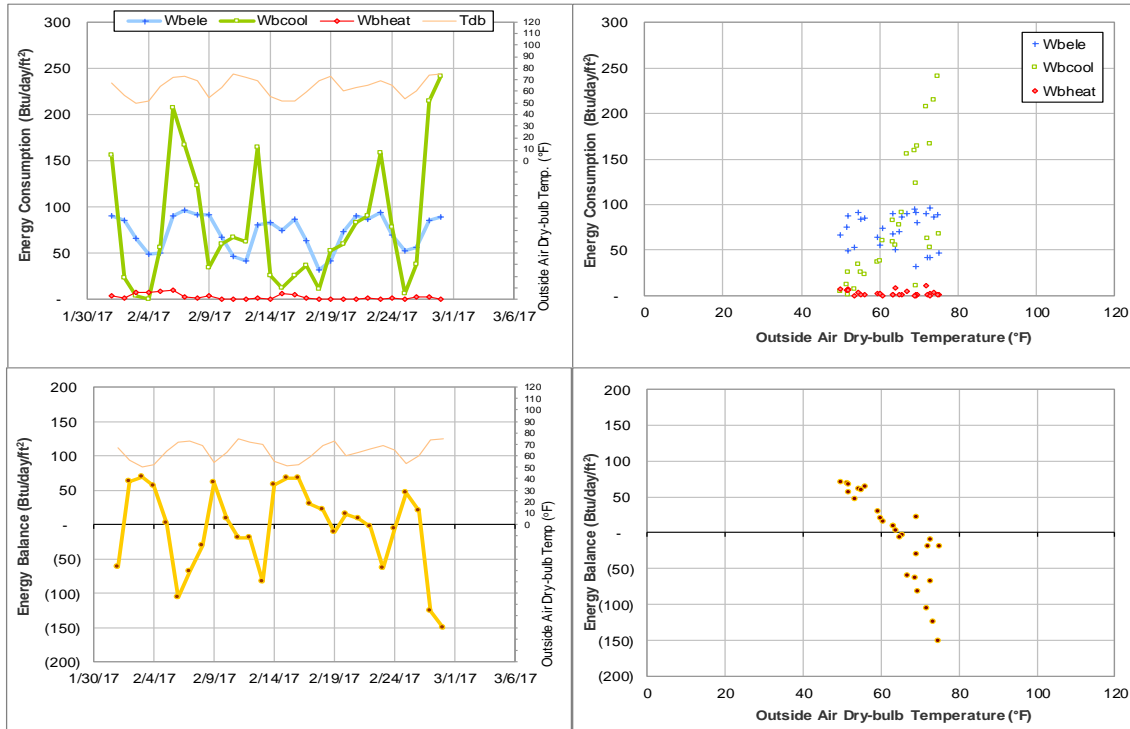


Figure IV-61 Harrington Education Center Classroom Building TAMU BLDG # 438 Energy Balance Plot during February 2017

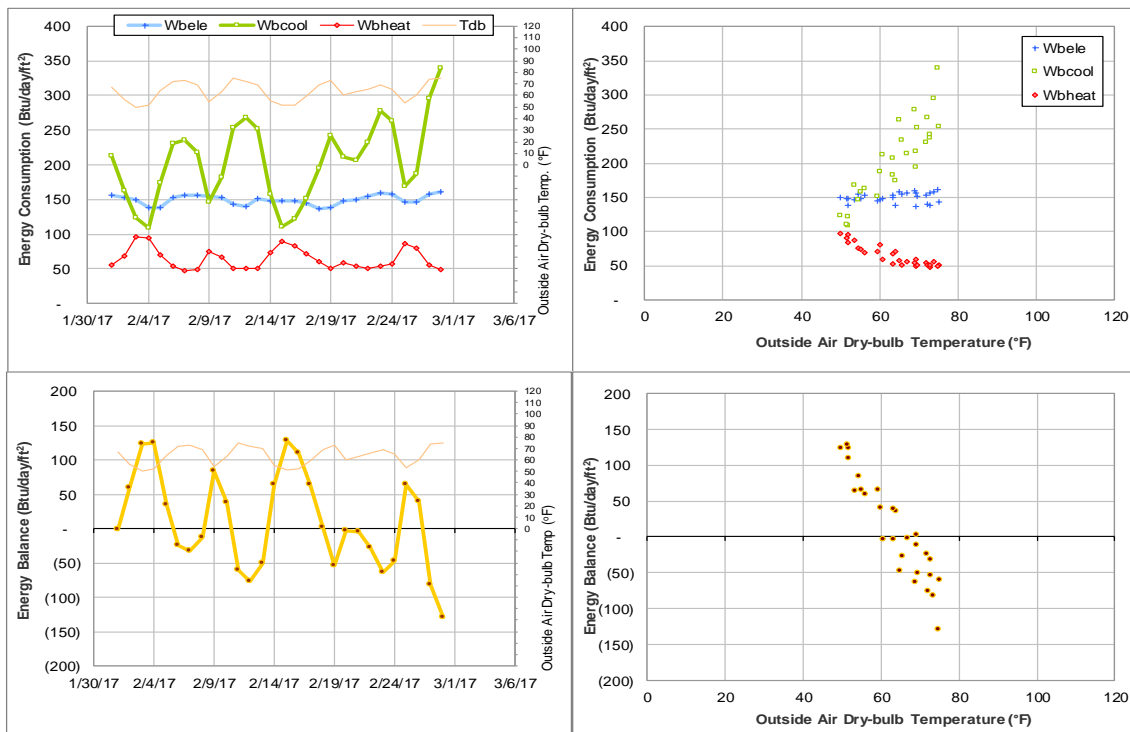


Figure IV-62 Oceanography & Meteorology Building TAMU BLDG # 443 Energy Balance Plot during February 2017

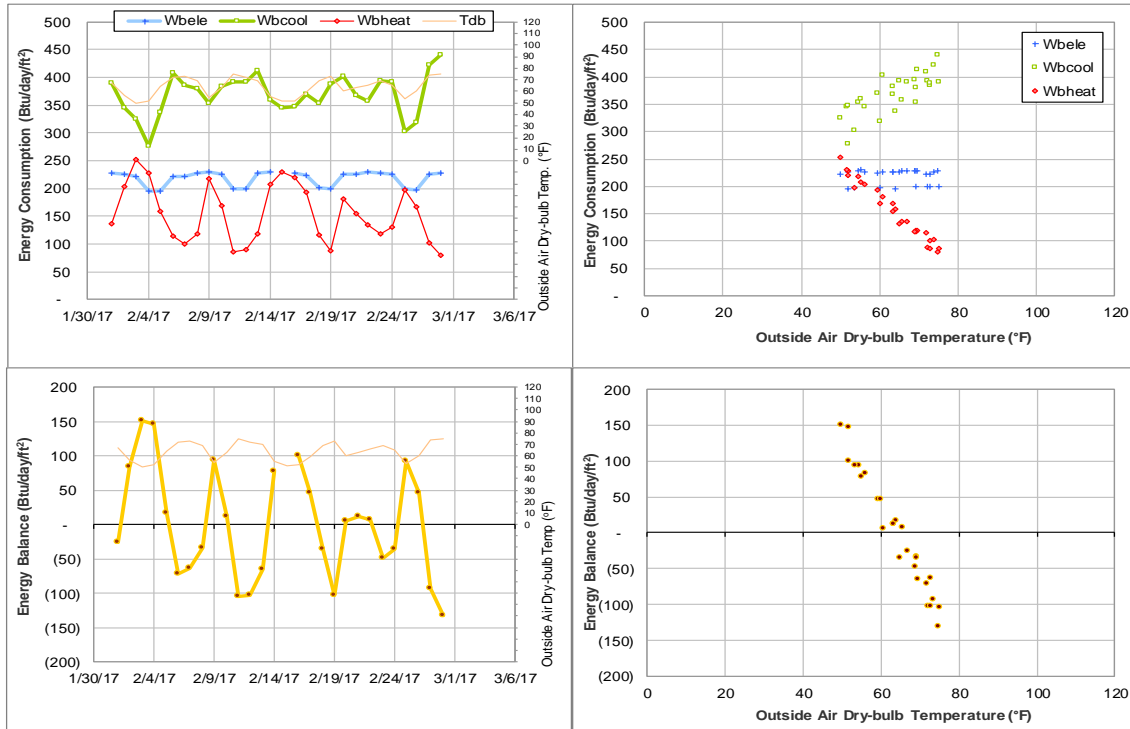


Figure IV-63 Peterson Building TAMU BLDG # 444 Energy Balance Plot during February 2017

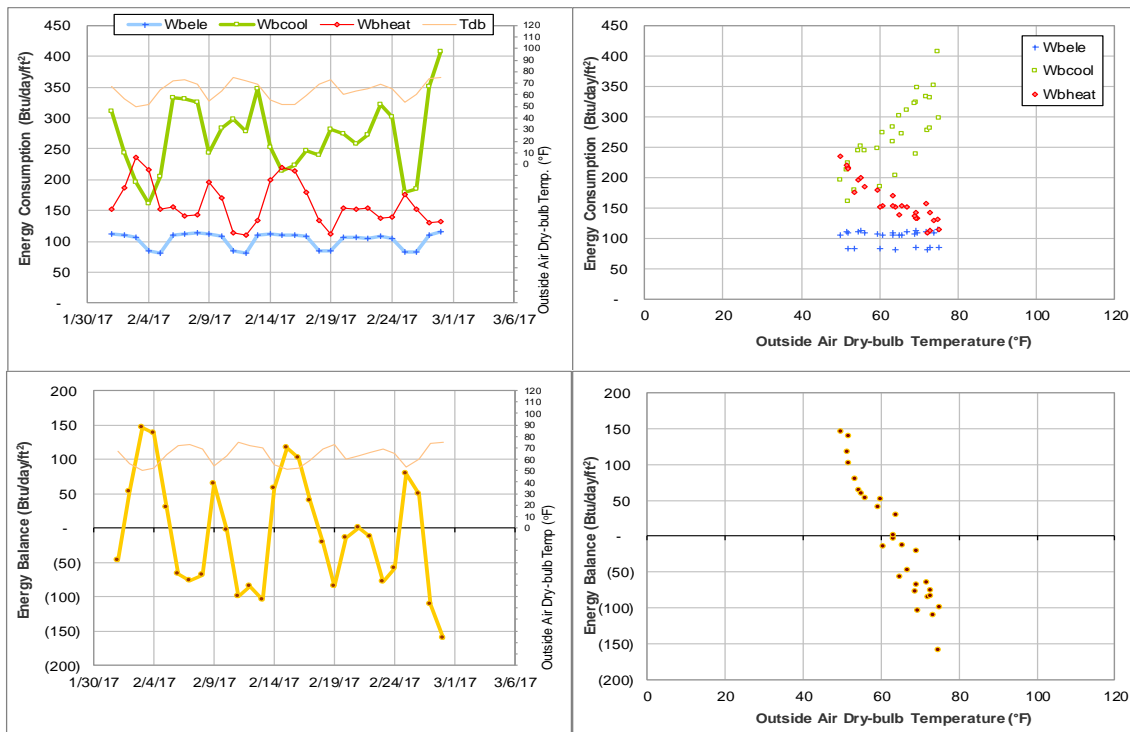


Figure IV-64 Teague Research Center and DPC Annex TAMU BLDG # 445 and 517 Energy Balance Plot during February 2017

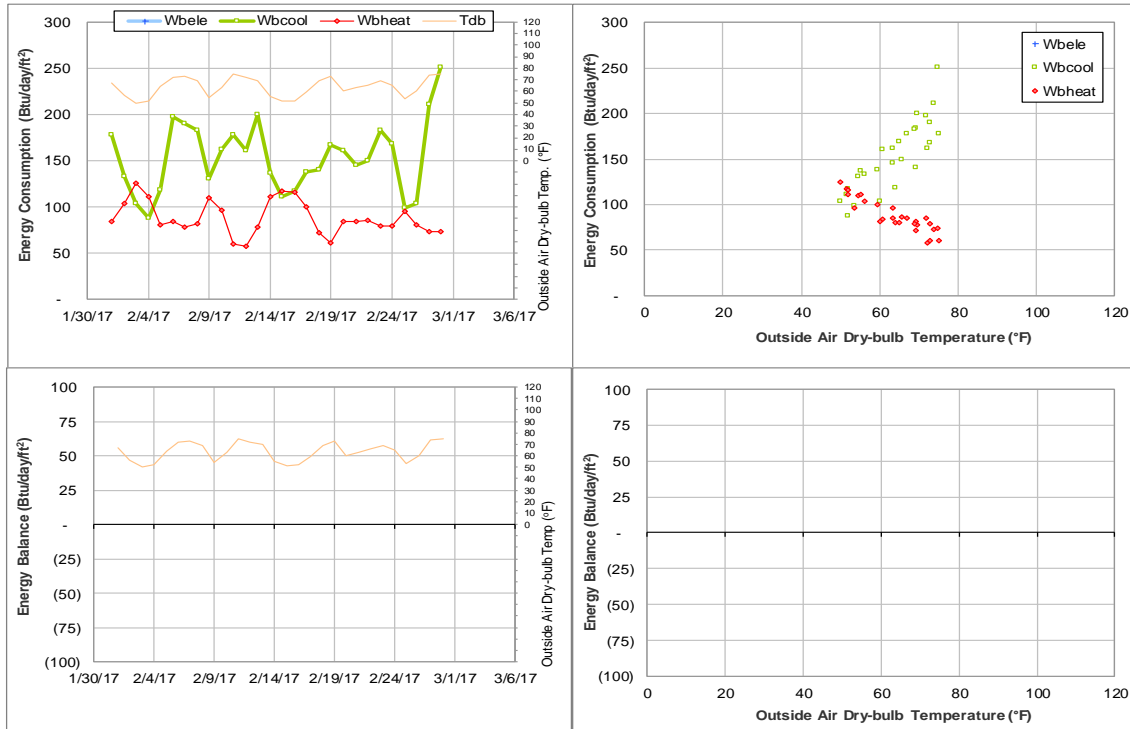


Figure IV-65 Teague Research Center TAMU BLDG # 445 Energy Balance Plot during February 2017

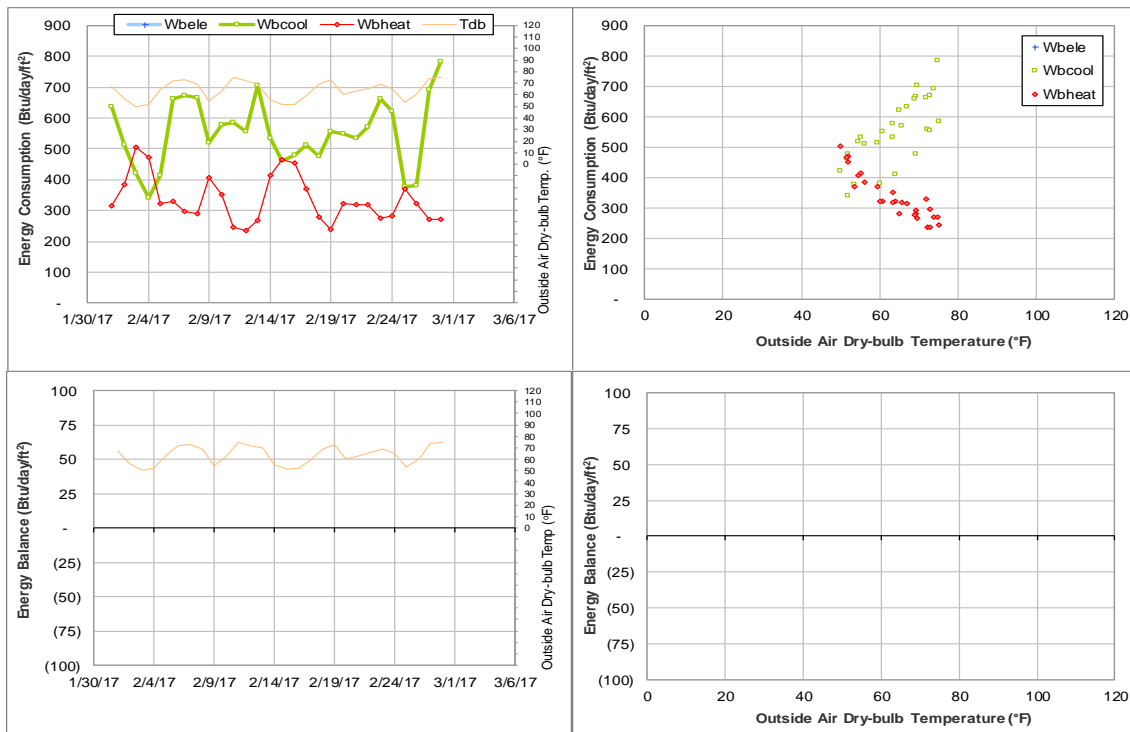


Figure IV-66 DPC Annex TAMU BLDG # 517 Energy Balance Plot during February 2017

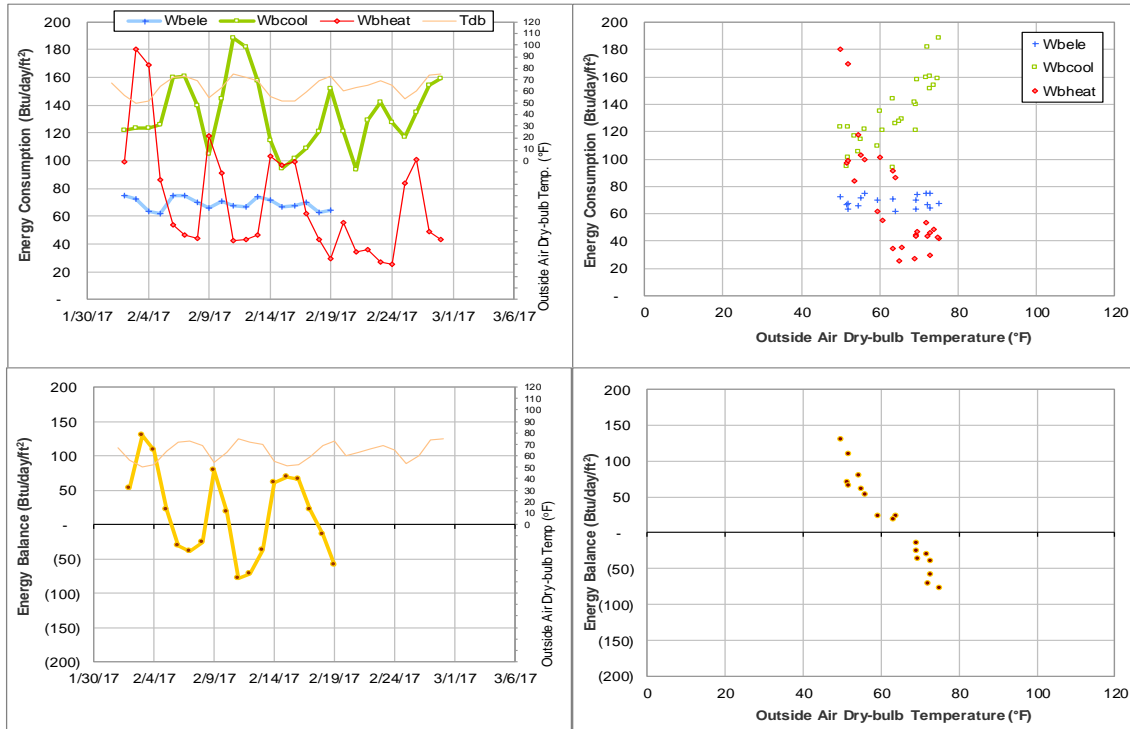


Figure IV-67 Rudder Tower and Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2017

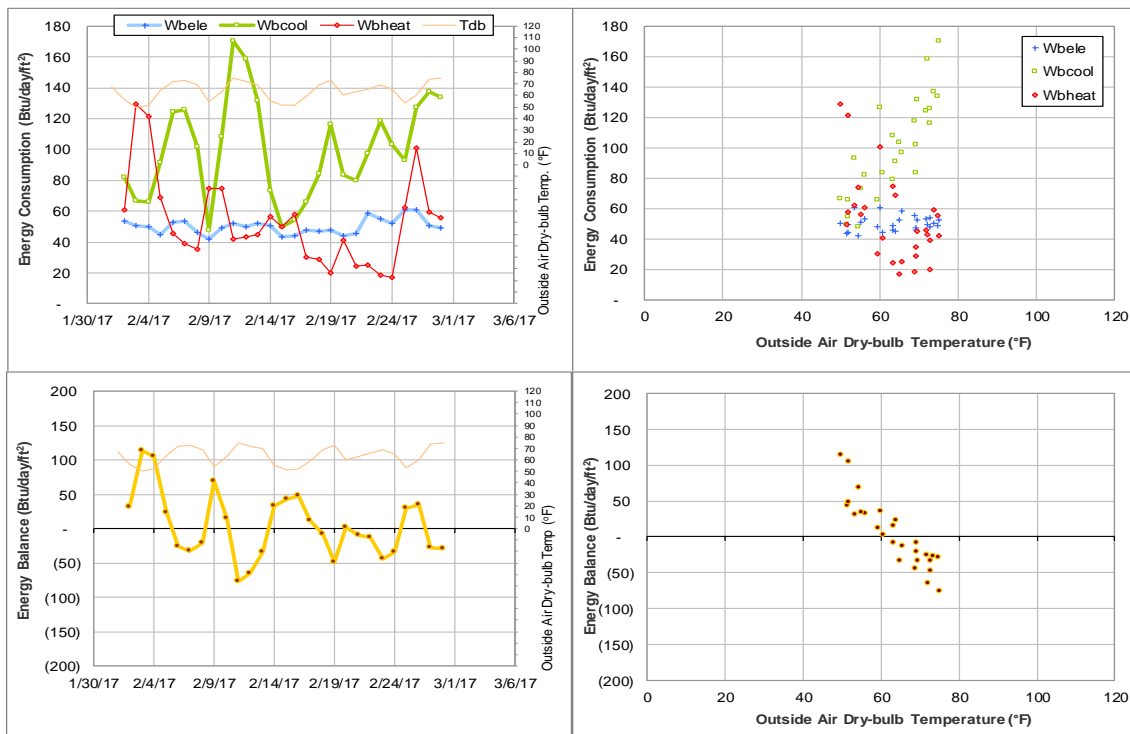


Figure IV-68 Rudder Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2017

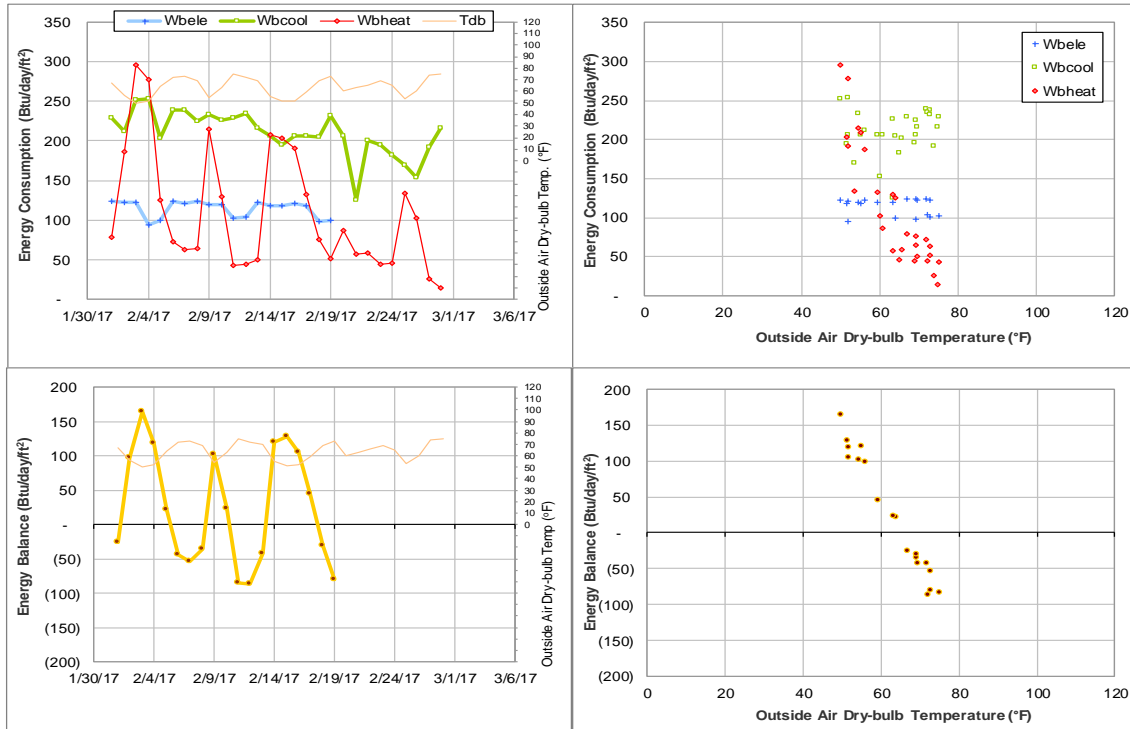


Figure IV-69 Rudder Tower TAMU BLDG # 446 Energy Balance Plot during February 2017

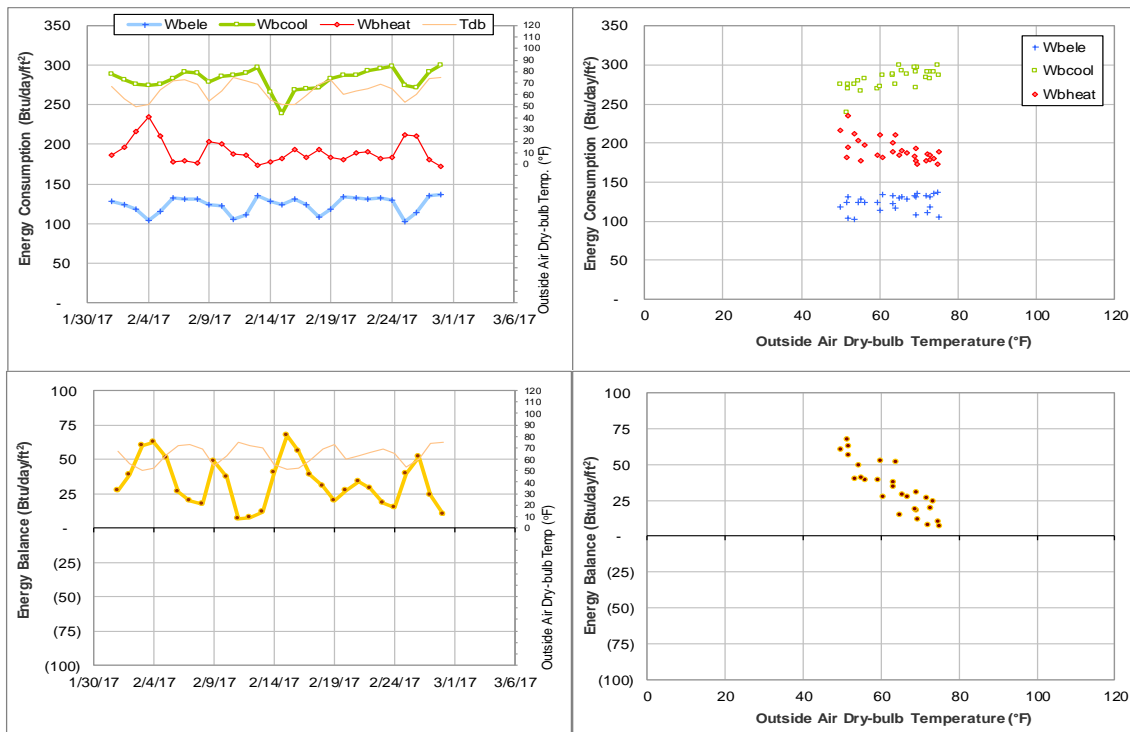


Figure IV-70 Adams Band Hall TAMU BLDG # 448 Energy Balance Plot during February 2017

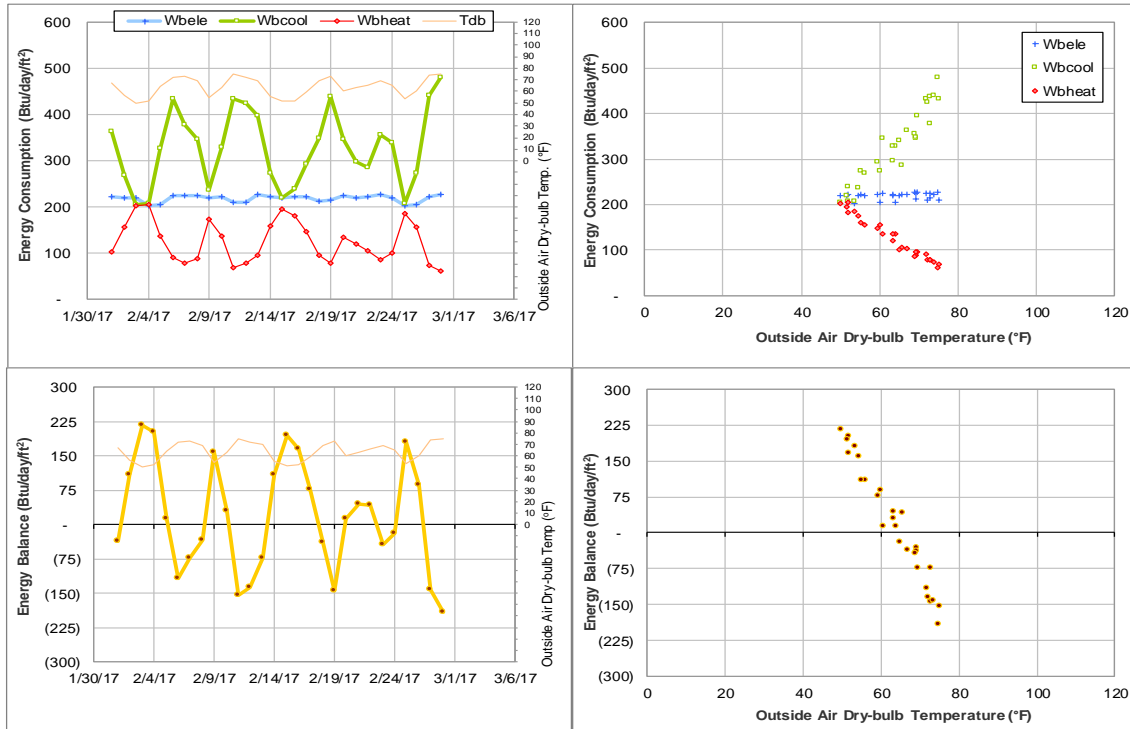


Figure IV-71 Biological Sciences Building - West TAMU BLDG # 449 Energy Balance Plot during February 2017

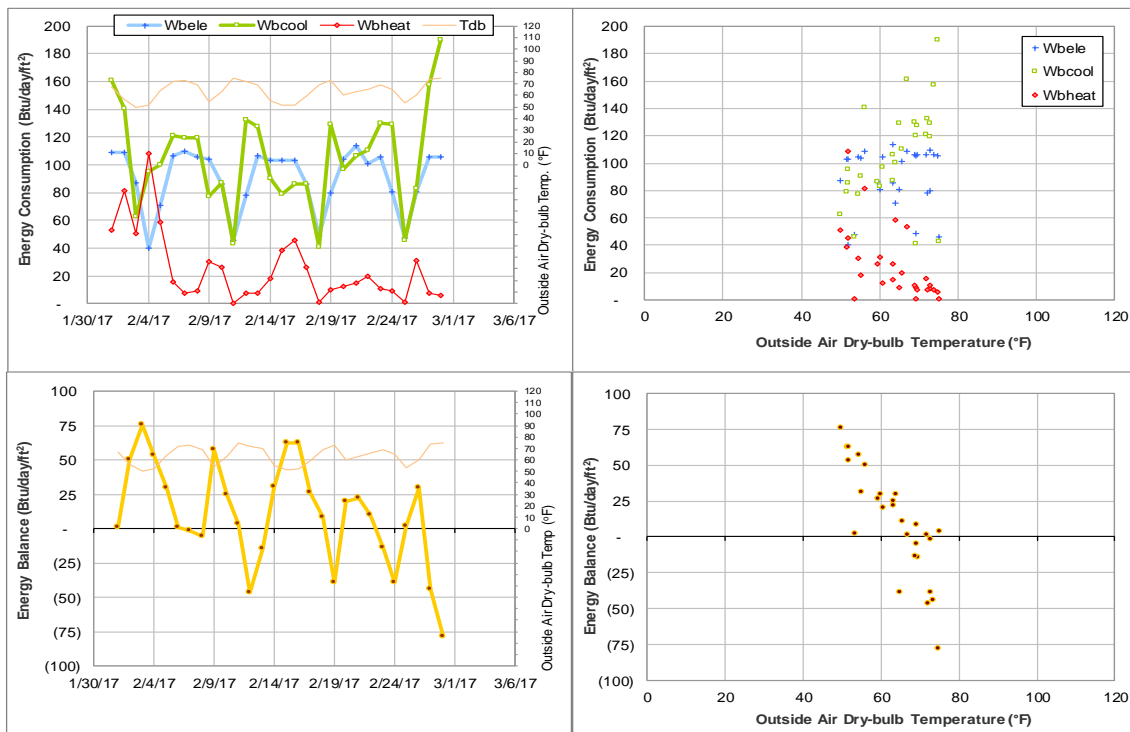


Figure IV-72 Duncan Dining Hall TAMU BLDG # 450 Energy Balance Plot during February 2017

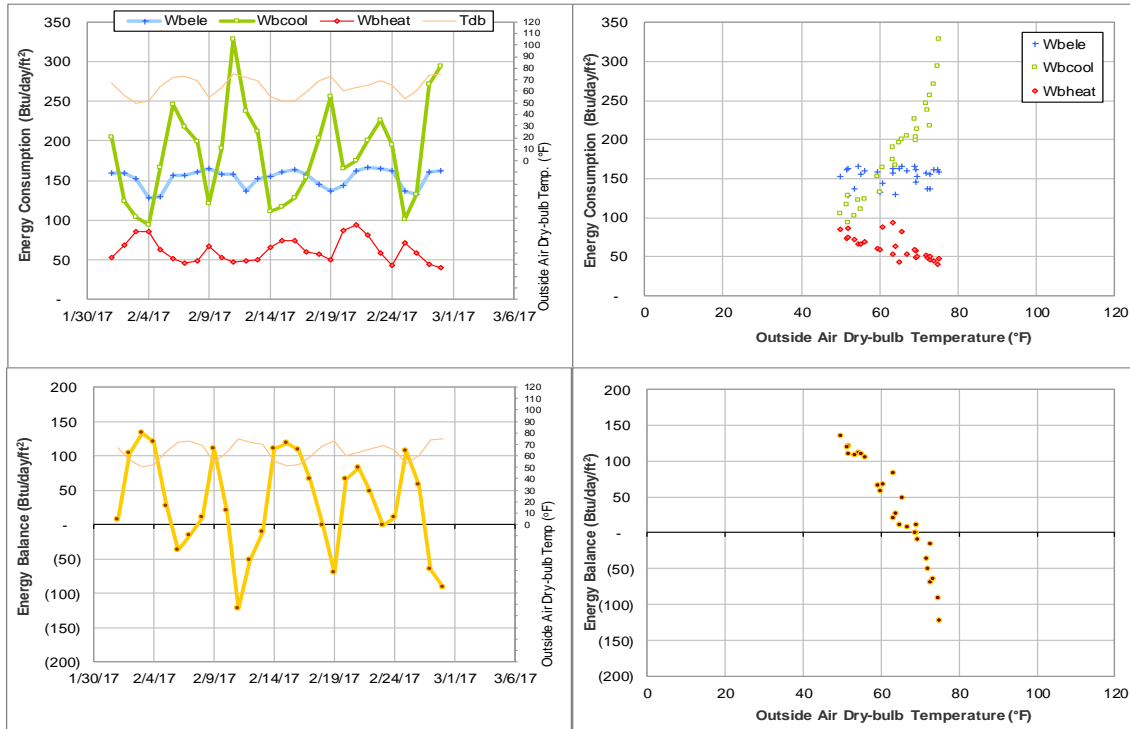


Figure IV-73 MSC TAMU BLDG # 454 Energy Balance Plot during February 2017

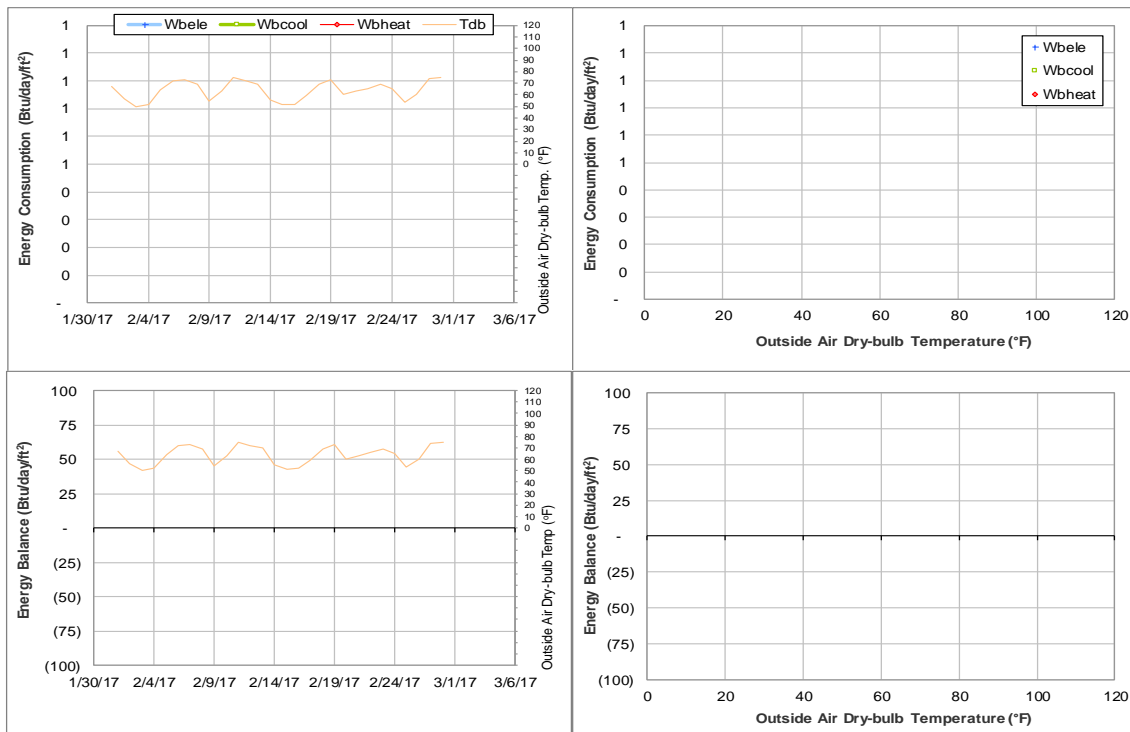


Figure IV-74 Military Sciences Building TAMU BLDG # 456 Energy Balance Plot during February 2017

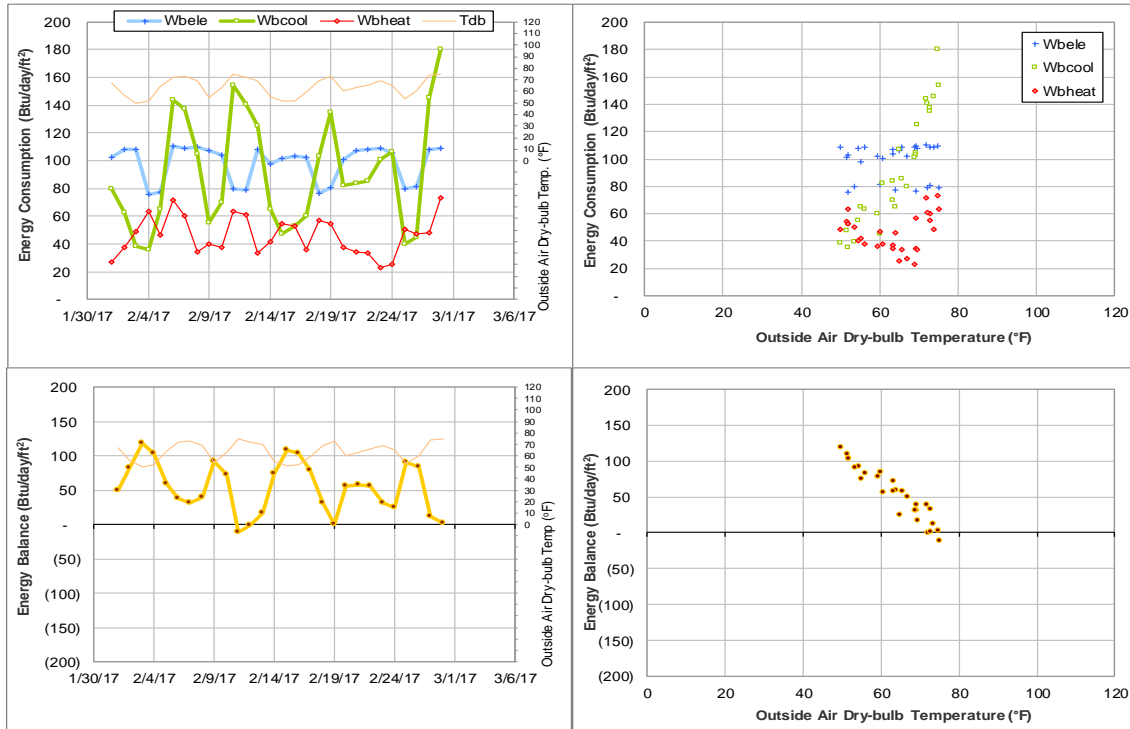


Figure IV-75 TAES Annex Building TAMU BLDG # 457 Energy Balance Plot during February 2017

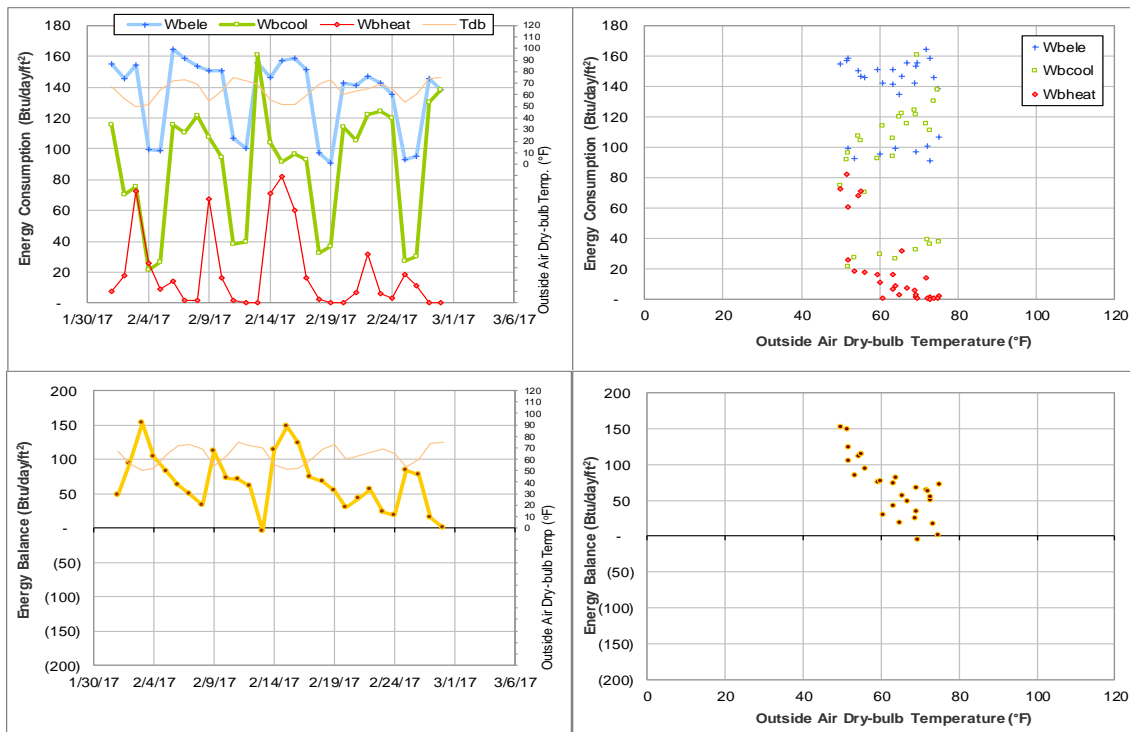


Figure IV-76 Coke Building TAMU BLDG # 461 Energy Balance Plot during February 2017

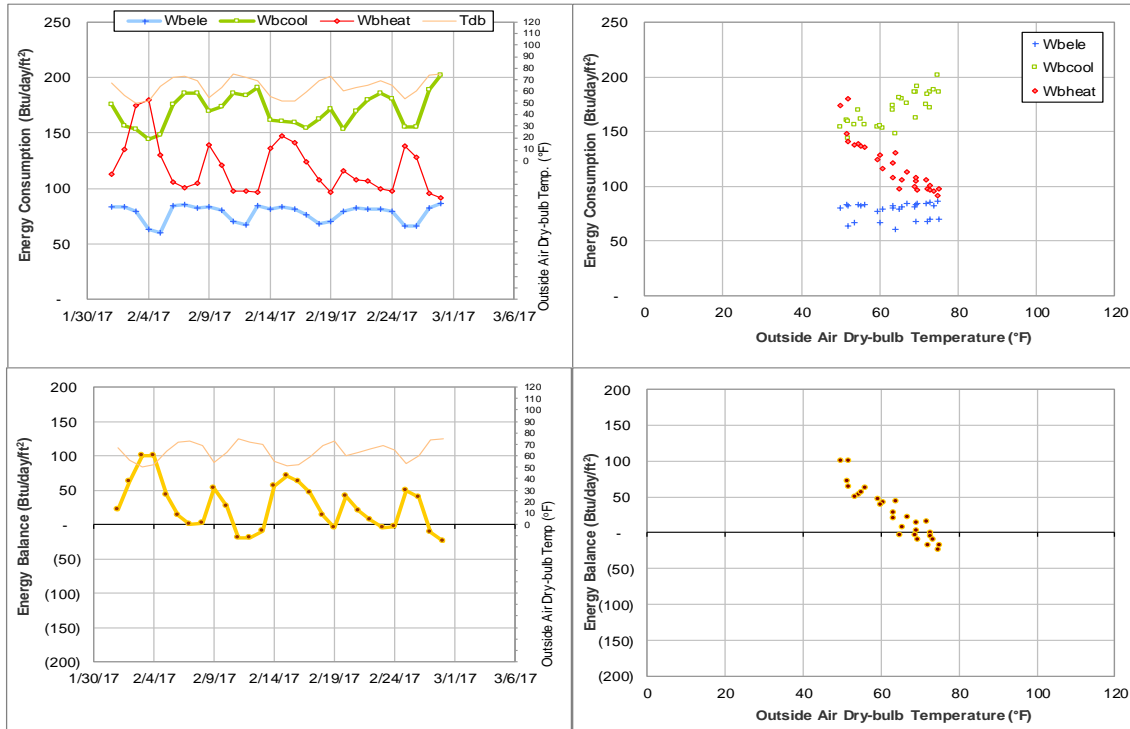


Figure IV-77 Academic Building TAMU BLDG # 462 Energy Balance Plot during February 2017

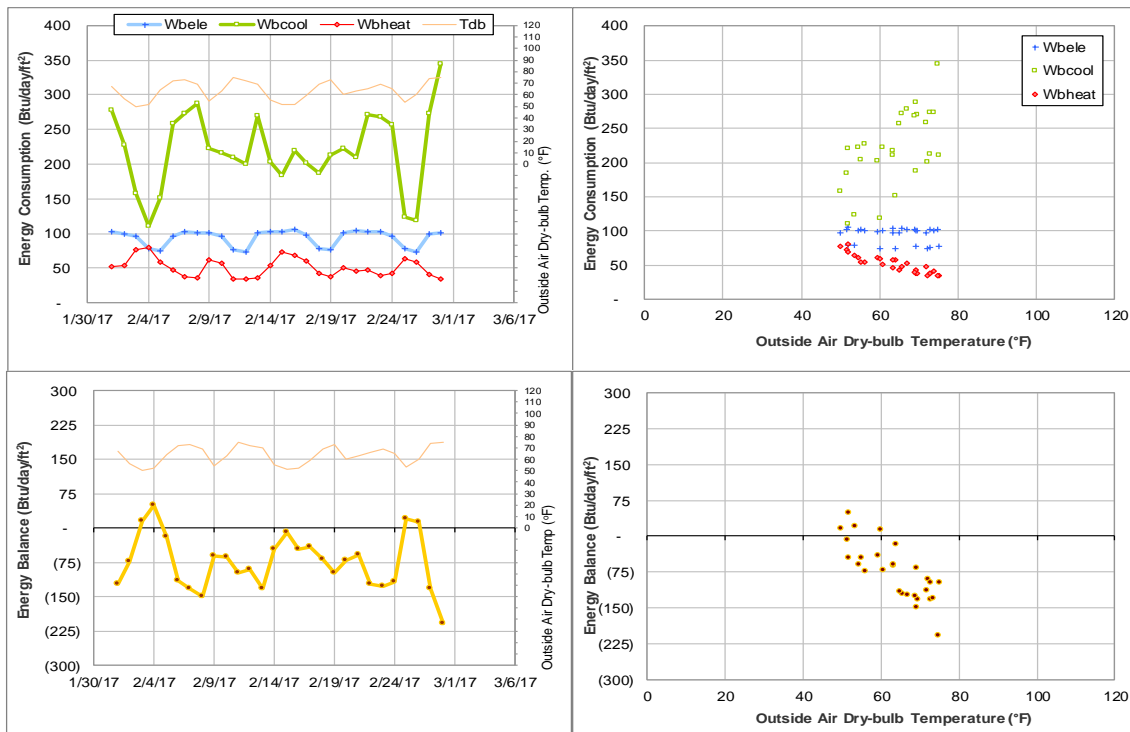


Figure IV-78 Psychology Building TAMU BLDG # 463 Energy Balance Plot during February 2017

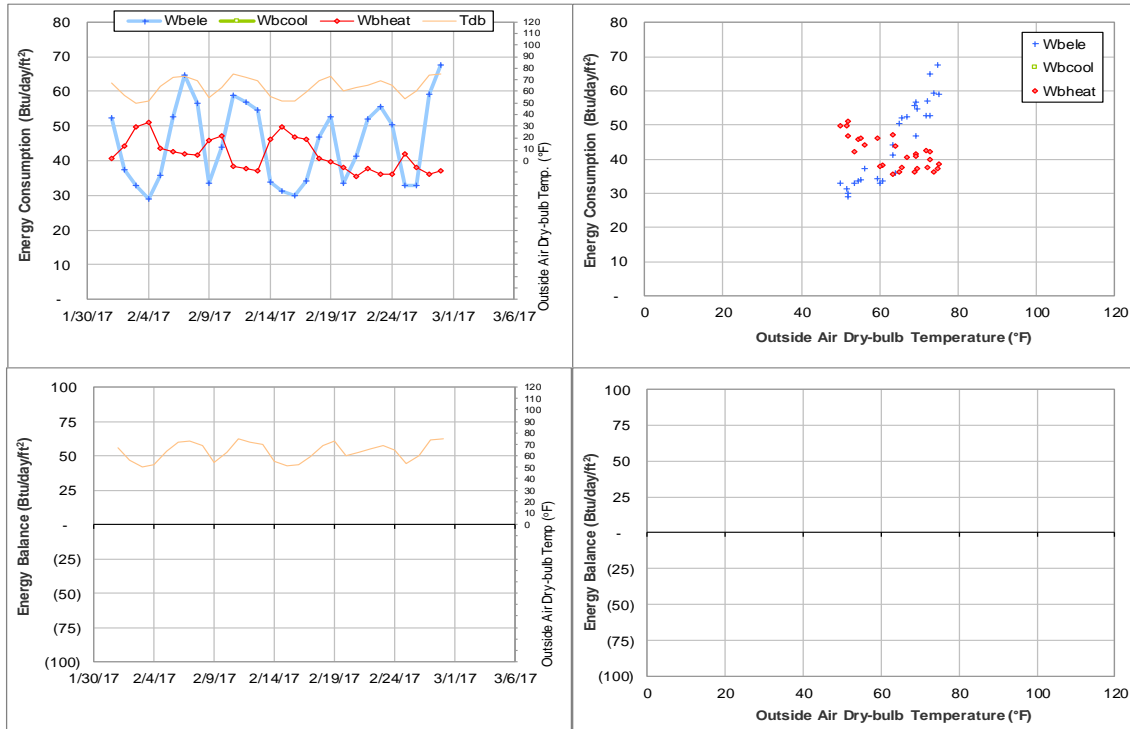


Figure IV-79 State Chemist Building TAMU BLDG # 464 Energy Balance Plot during February 2017

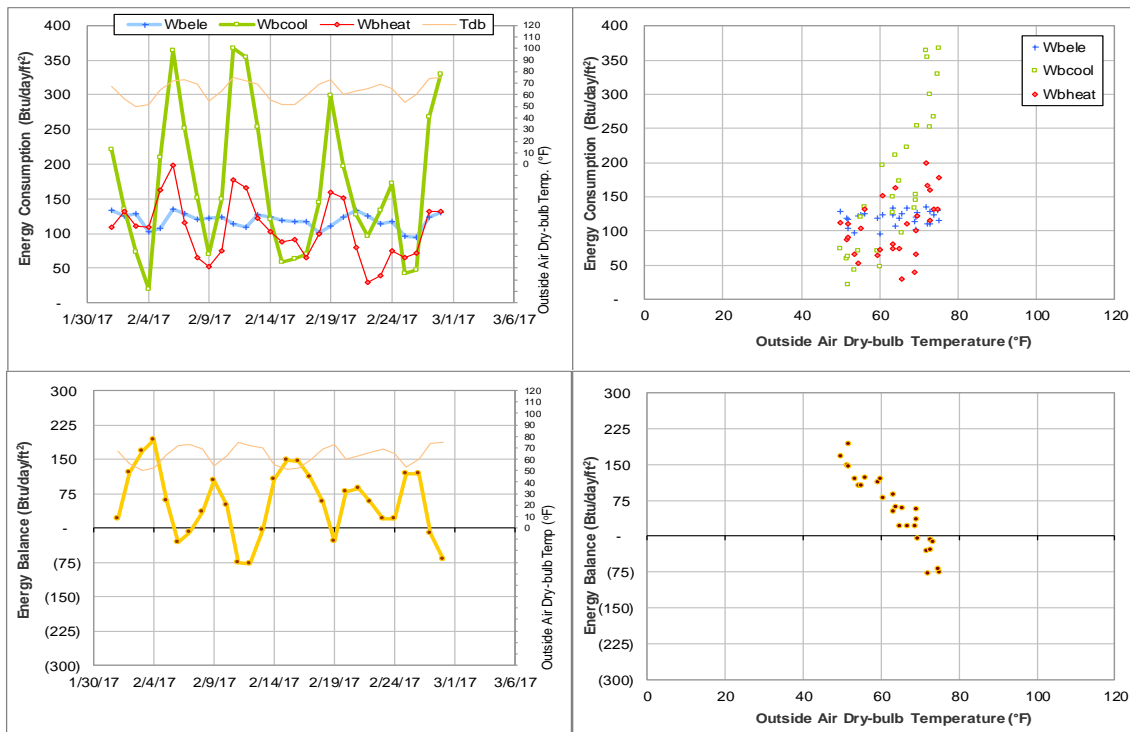


Figure IV-80 Butler Hall TAMU BLDG # 465 Energy Balance Plot during February 2017

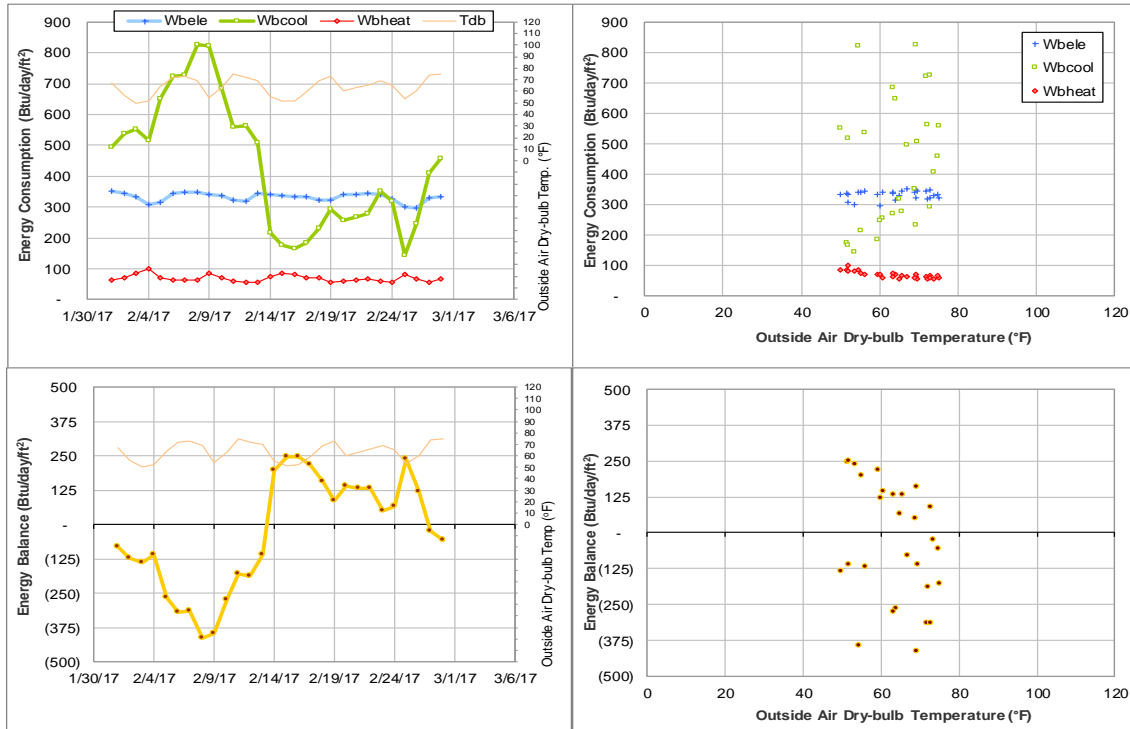


Figure IV-81 Biological Sciences Building - East TAMU BLDG # 467 Energy Balance Plot during February 2017

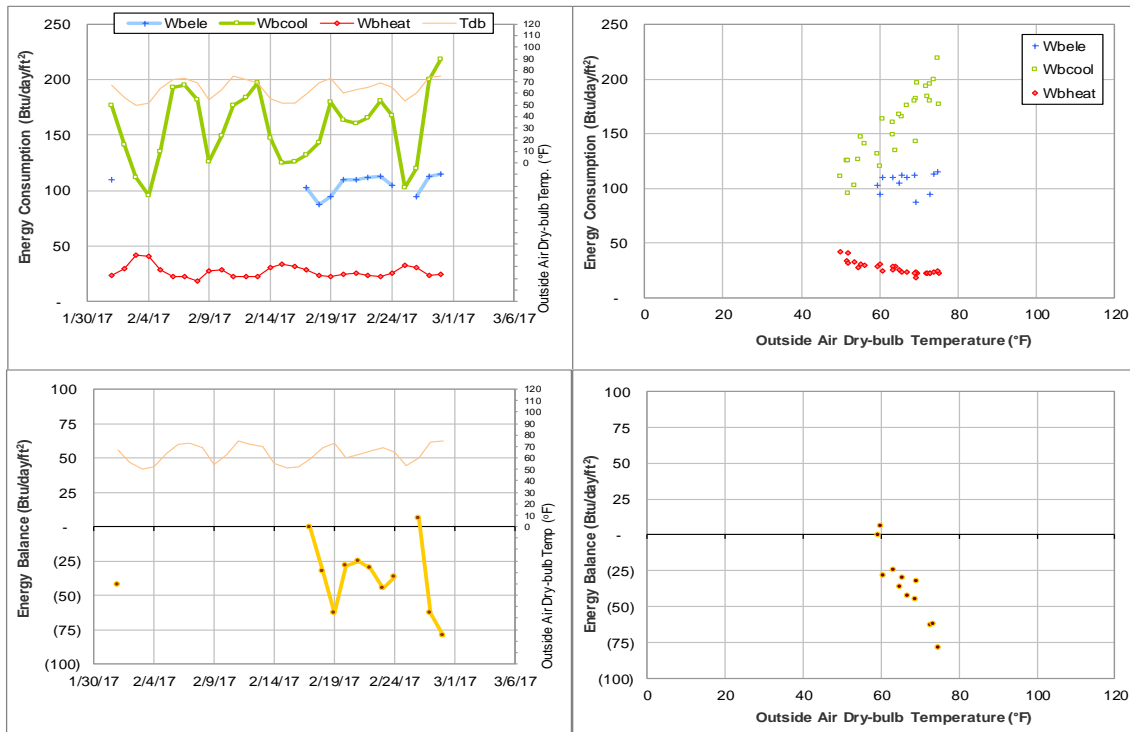


Figure IV-82 Evans Library TAMU BLDG # 468 Energy Balance Plot during February 2017

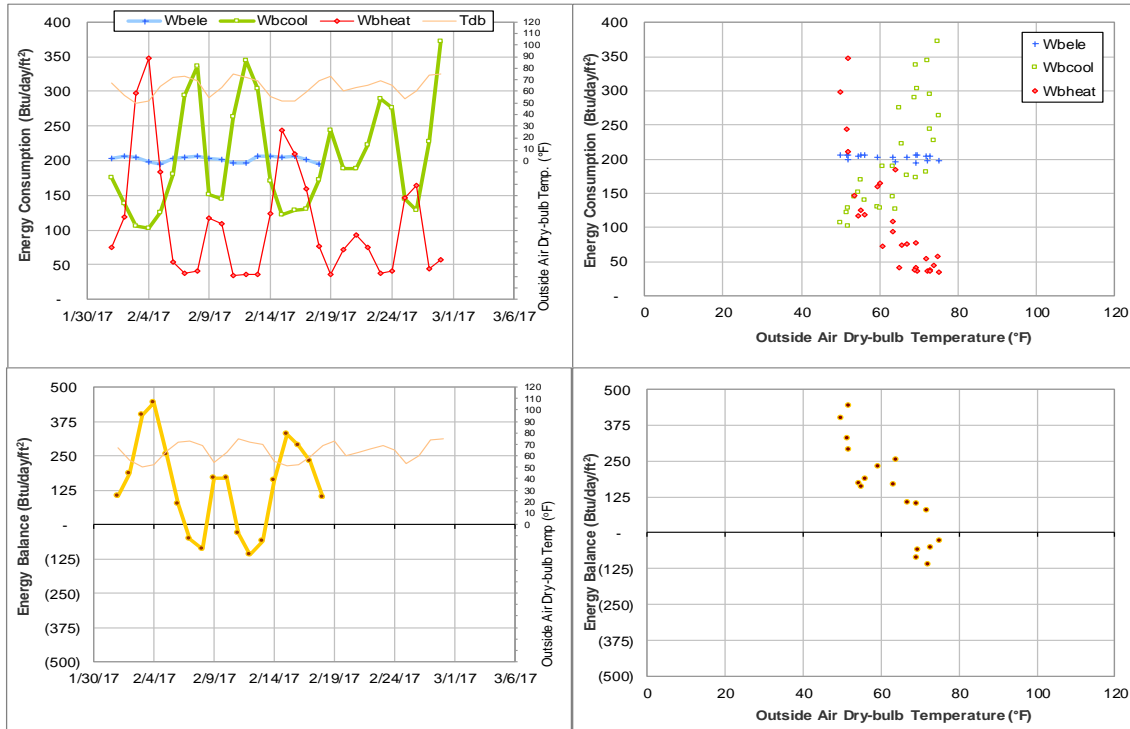


Figure IV-83 Central Campus Parking Garage TAMU BLDG # 469 Energy Balance Plot during February 2017

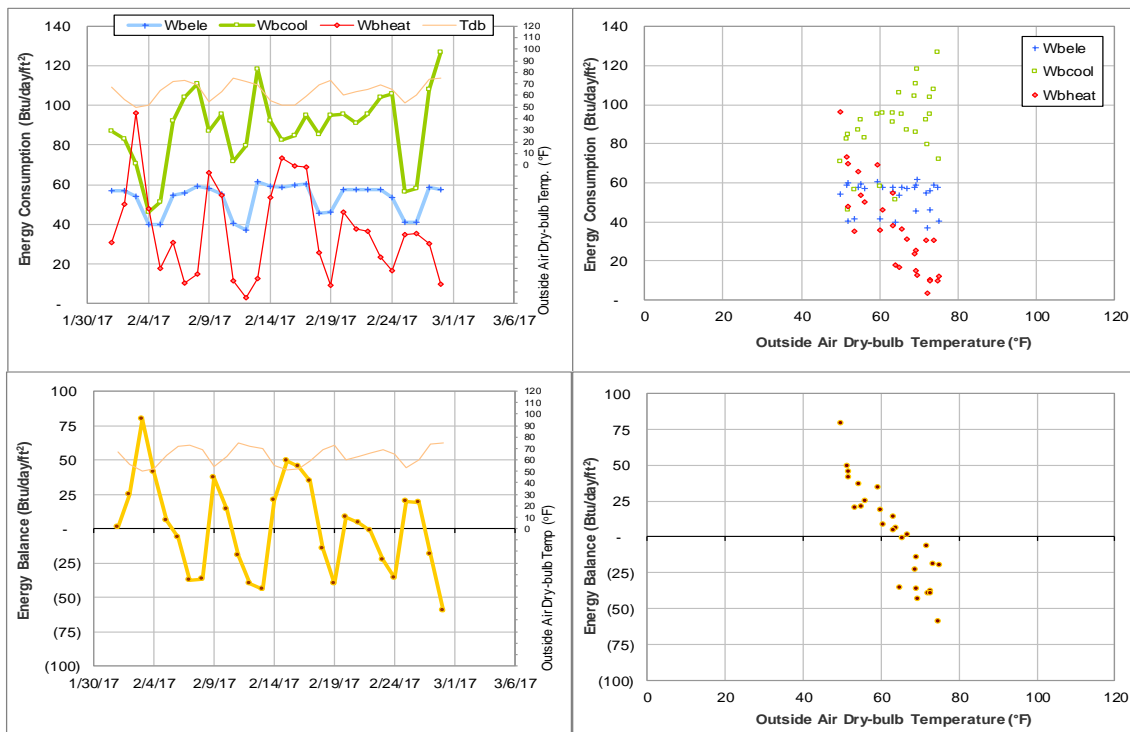


Figure IV-84 Glasscock History Bldg TAMU BLDG # 470 Energy Balance Plot during February 2017

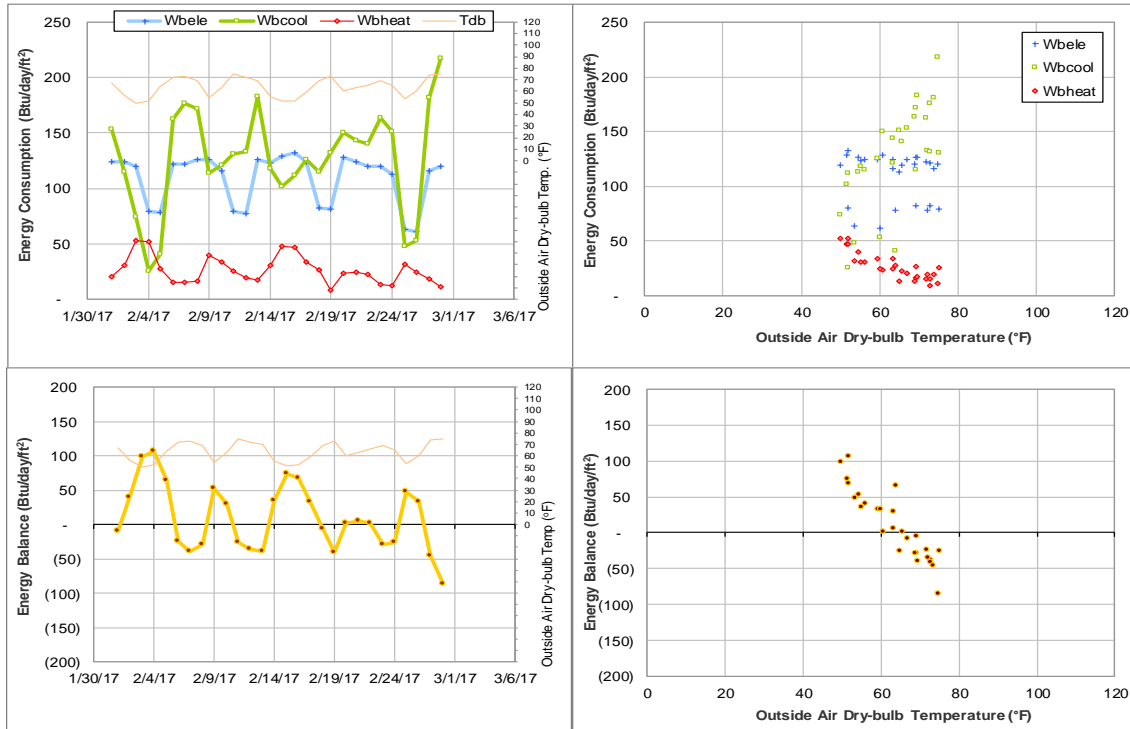


Figure IV-85 Pavilion TAMU BLDG # 471 Energy Balance Plot during February 2017

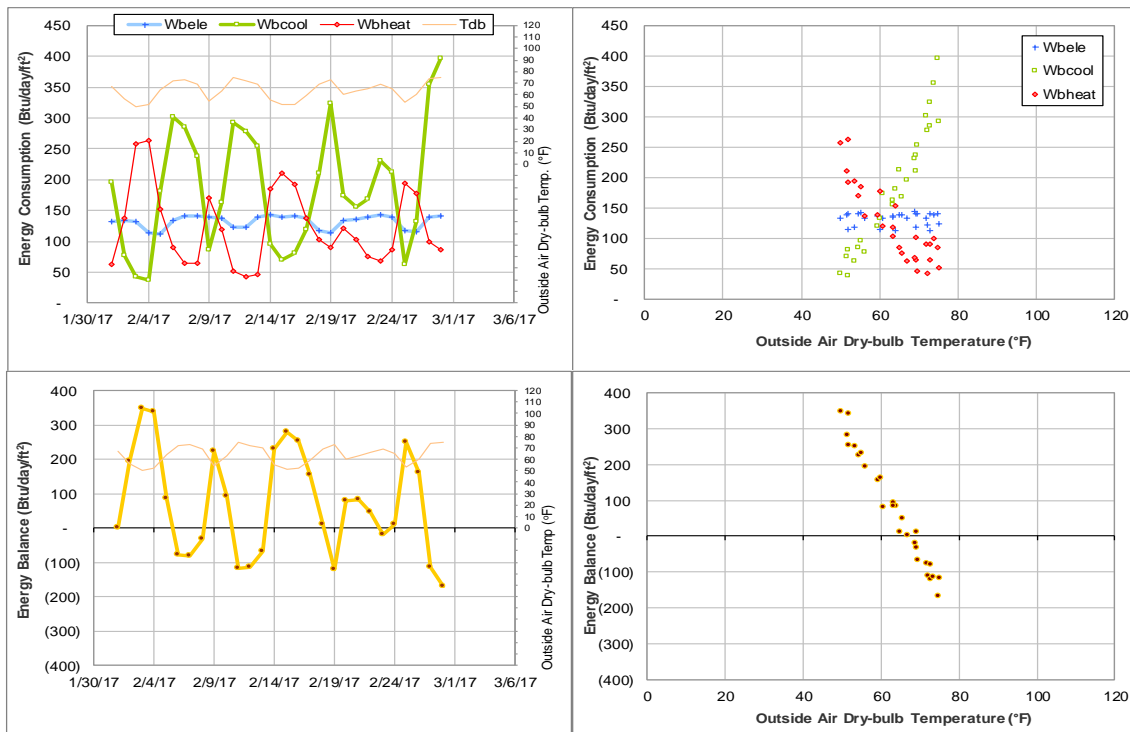


Figure IV-86 Animal Industries TAMU BLDG # 472 Energy Balance Plot during February 2017

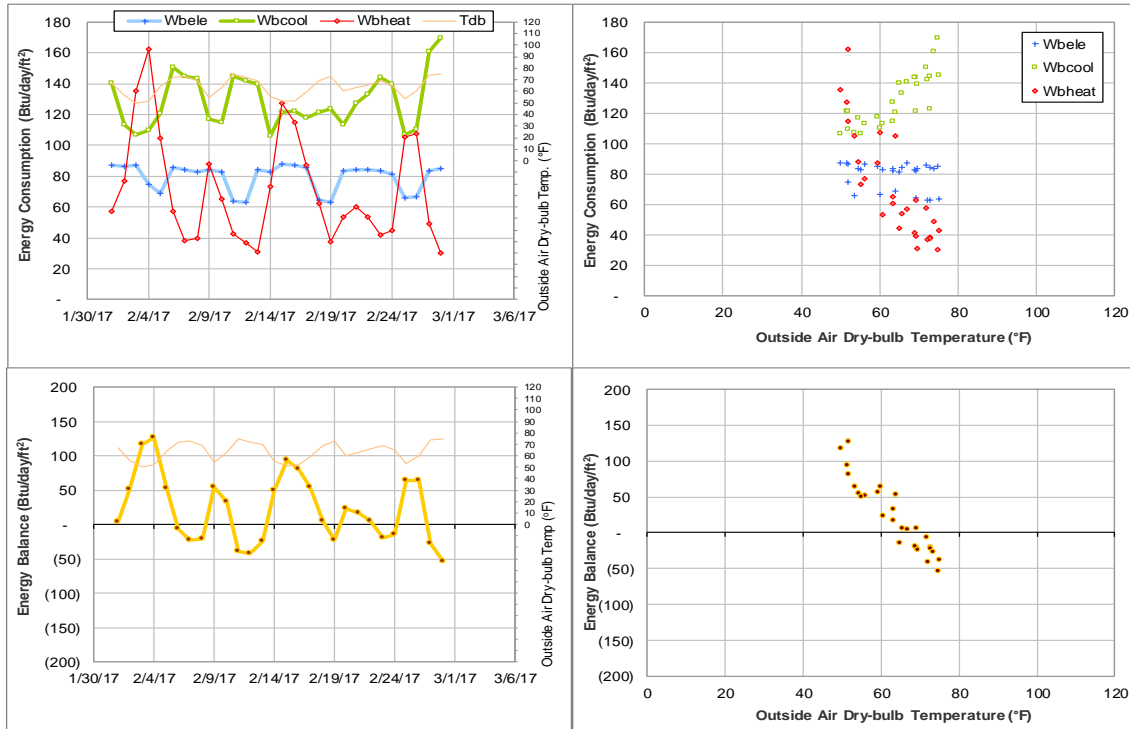


Figure IV-87 Williams Administration Building TAMU BLDG # 473 Energy Balance Plot during February 2017

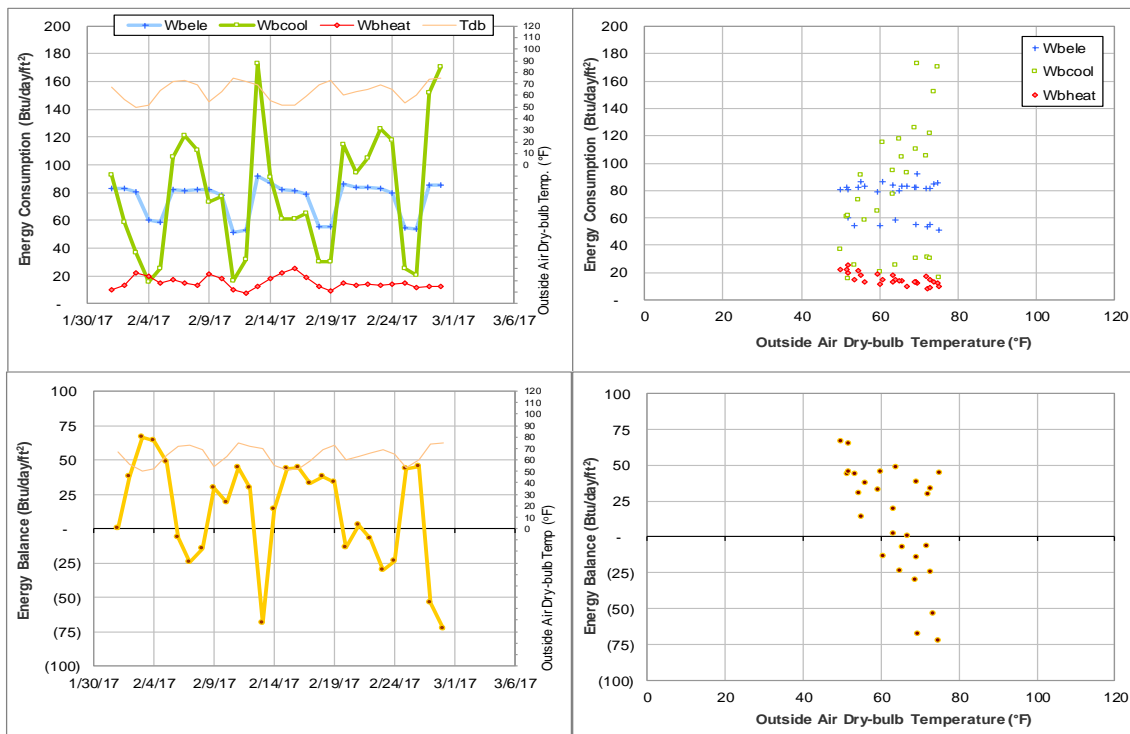


Figure IV-88 YMCA Building TAMU BLDG # 474 Energy Balance Plot during February 2017

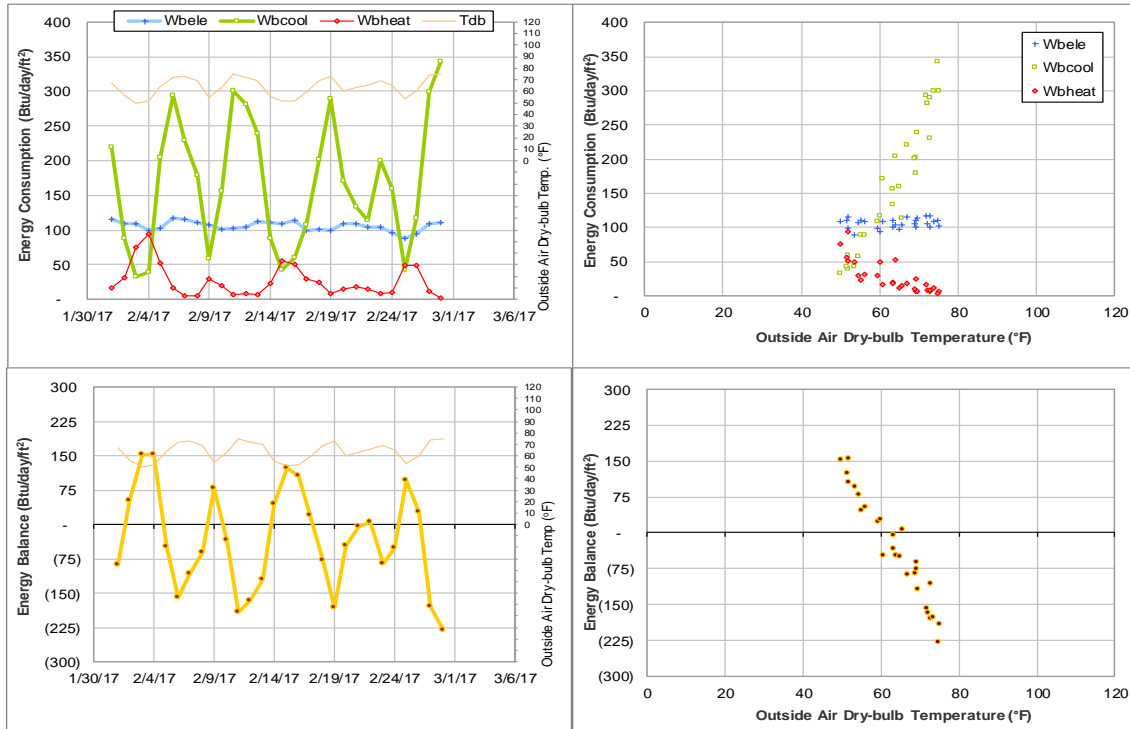


Figure IV-89 Francis Hall TAMU BLDG # 476 Energy Balance Plot during February 2017

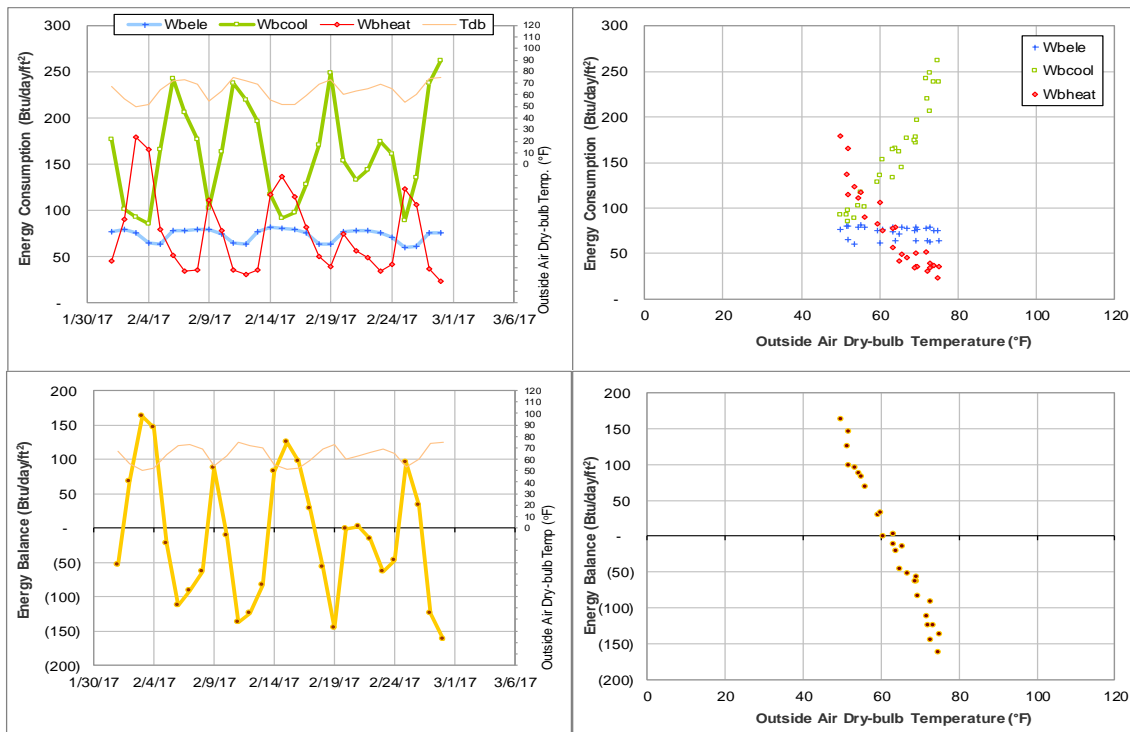


Figure IV-90 Anthropology Building TAMU BLDG # 477 Energy Balance Plot during February 2017

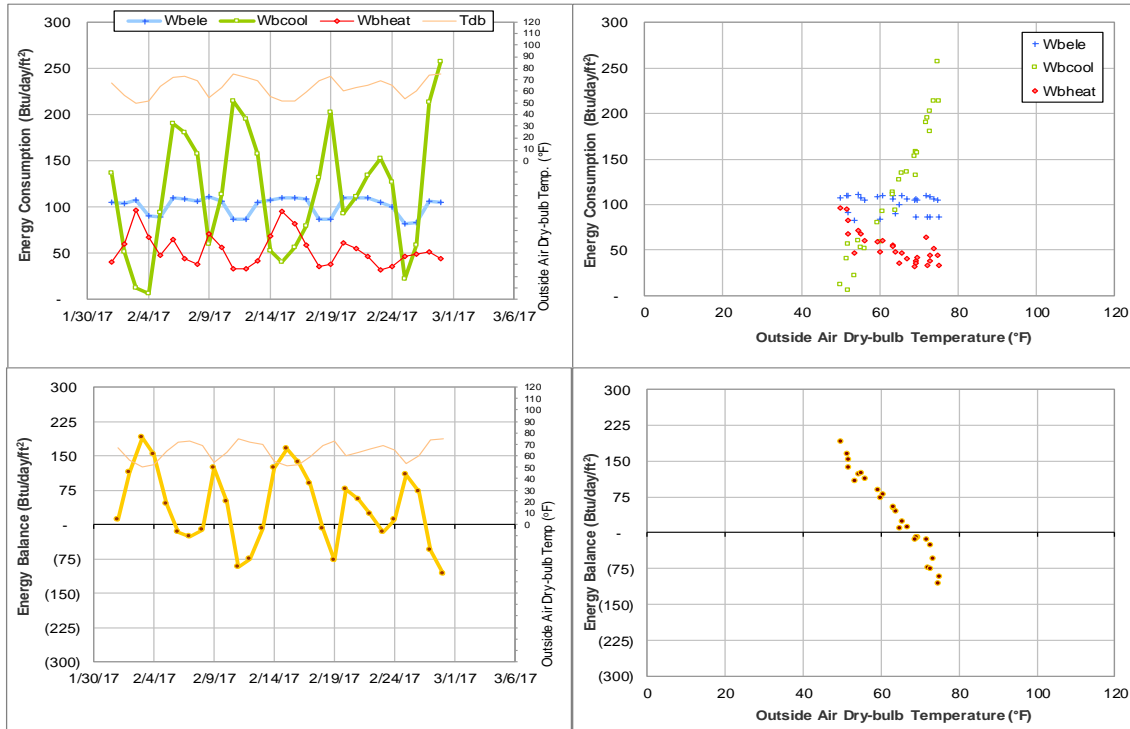


Figure IV-91 Scoates Hall TAMU BLDG # 478 Energy Balance Plot during February 2017

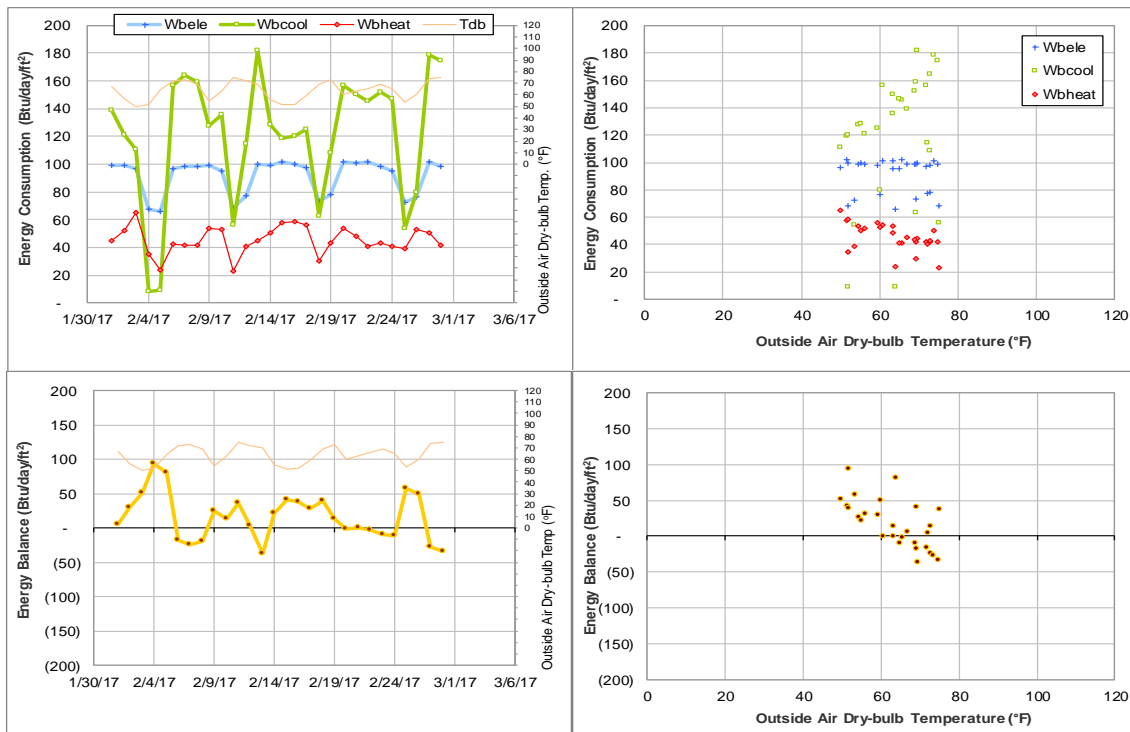


Figure IV-92 Bolton Hall TAMU BLDG # 480 Energy Balance Plot during February 2017

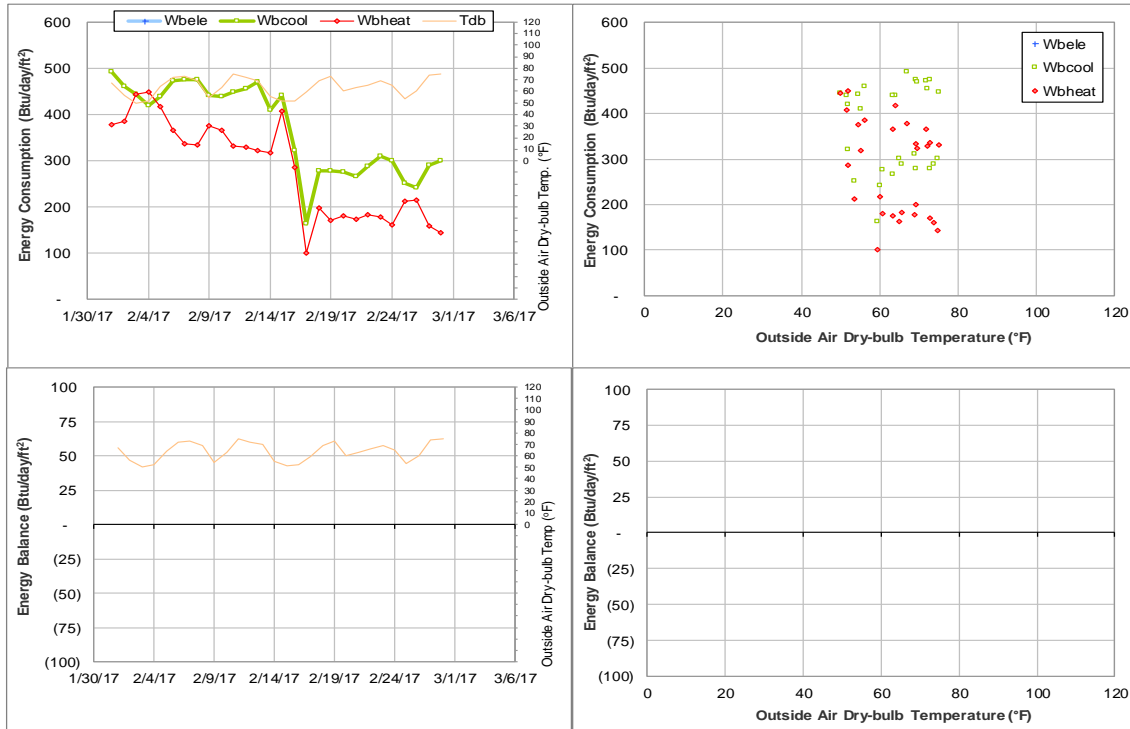


Figure IV-93 Heaton Hall TAMU BLDG # 481 Energy Balance Plot during February 2017

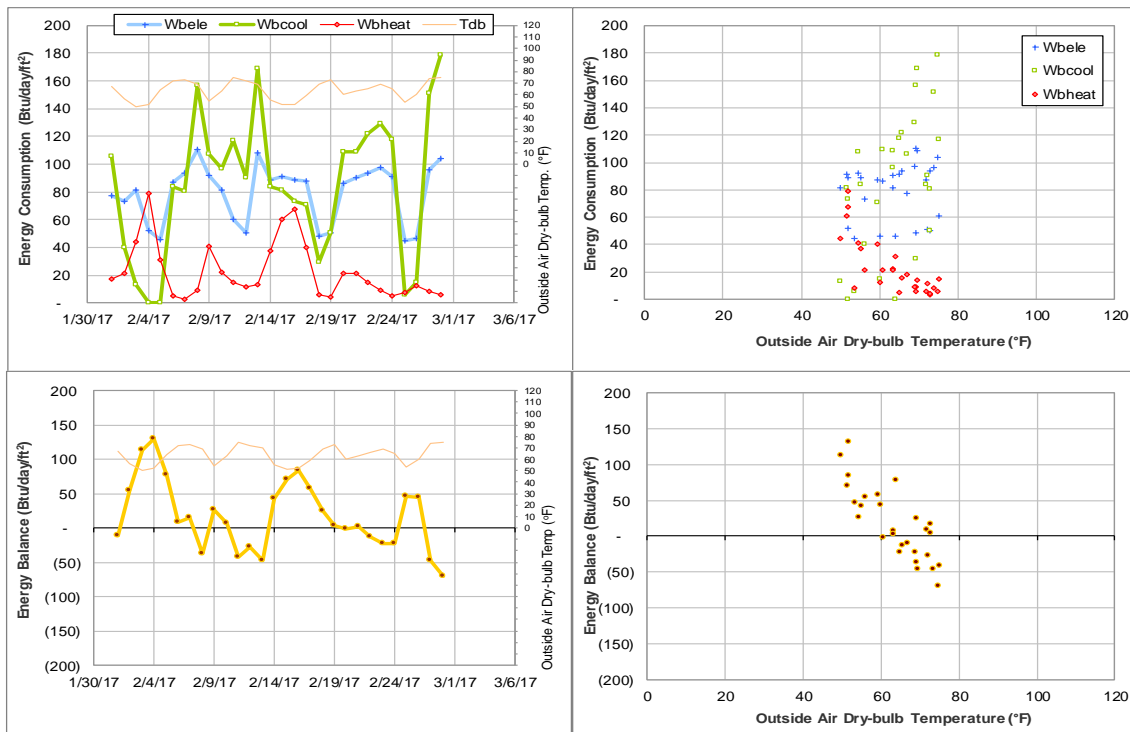


Figure IV-94 Fermier Hall TAMU BLDG # 482 Energy Balance Plot during February 2017

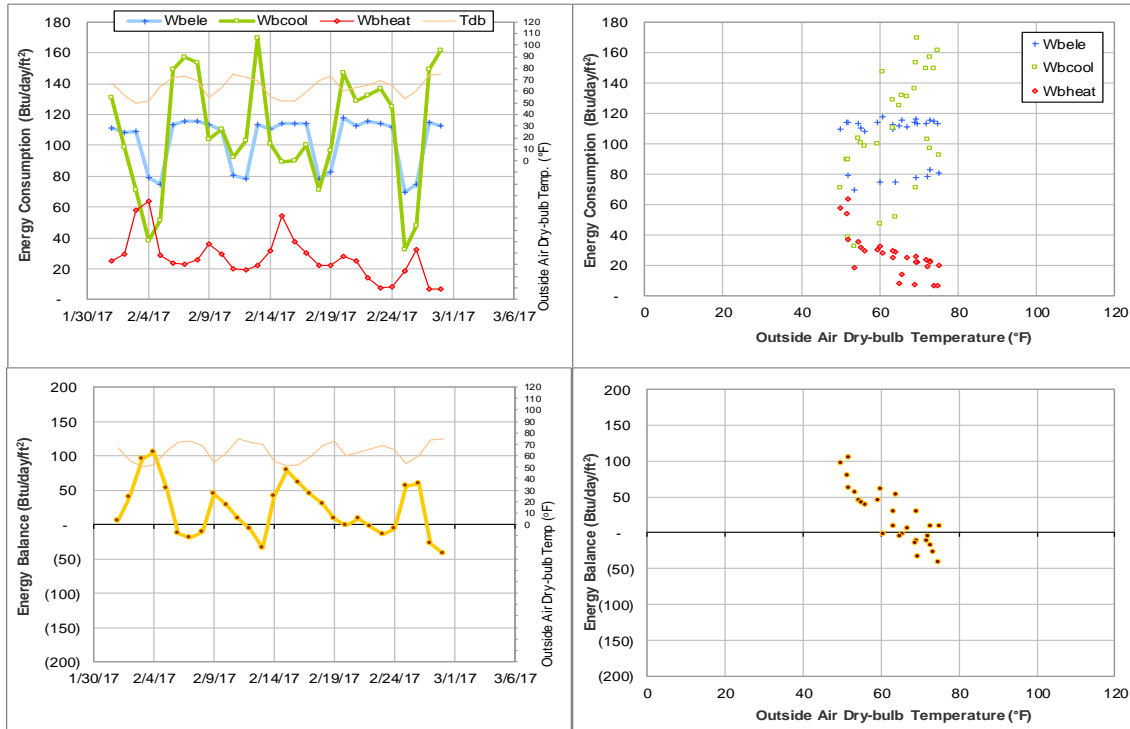


Figure IV-95 Thompson Hall TAMU BLDG # 483 Energy Balance Plot during February 2017

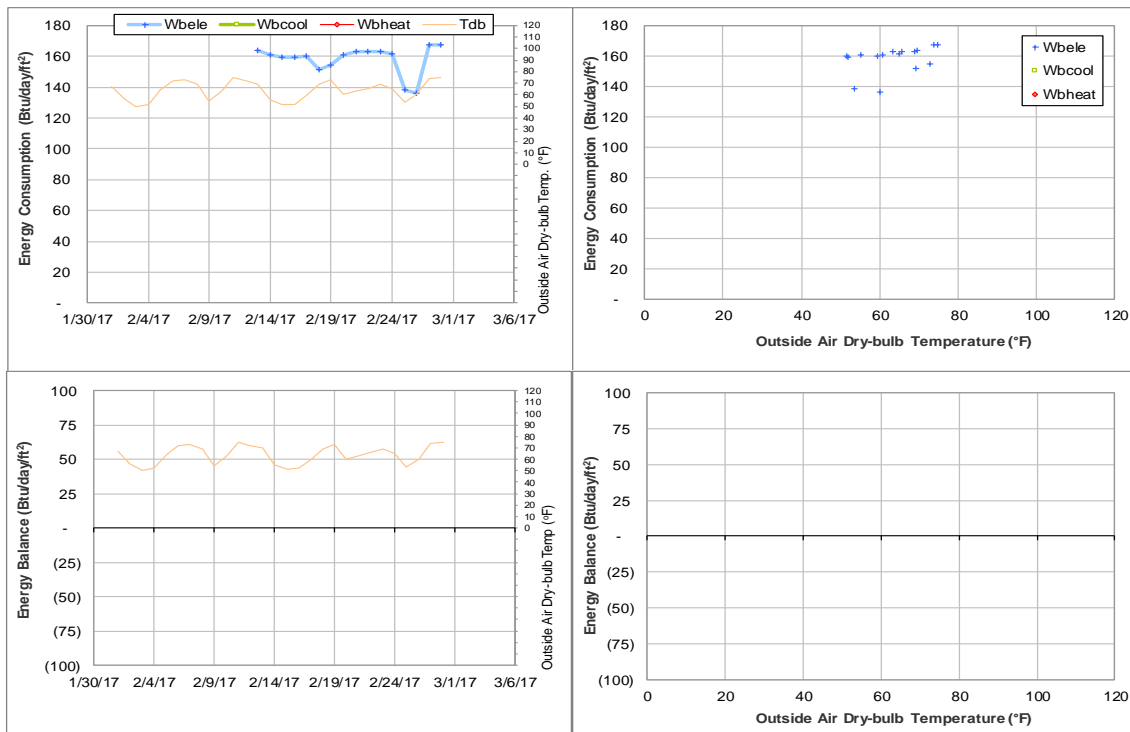


Figure IV-96 Chemistry Building TAMU BLDG # 484 Energy Balance Plot during February 2017

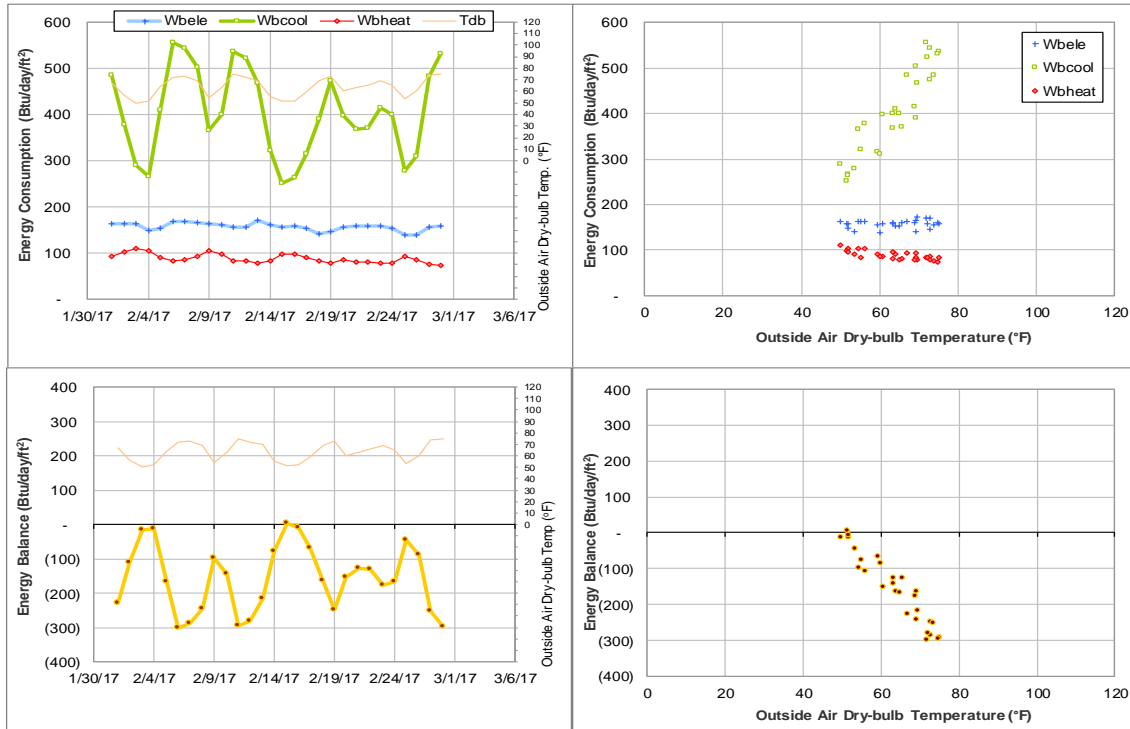


Figure IV-97 Halbouty Geosciences Building TAMU BLDG # 490 Energy Balance Plot during February 2017

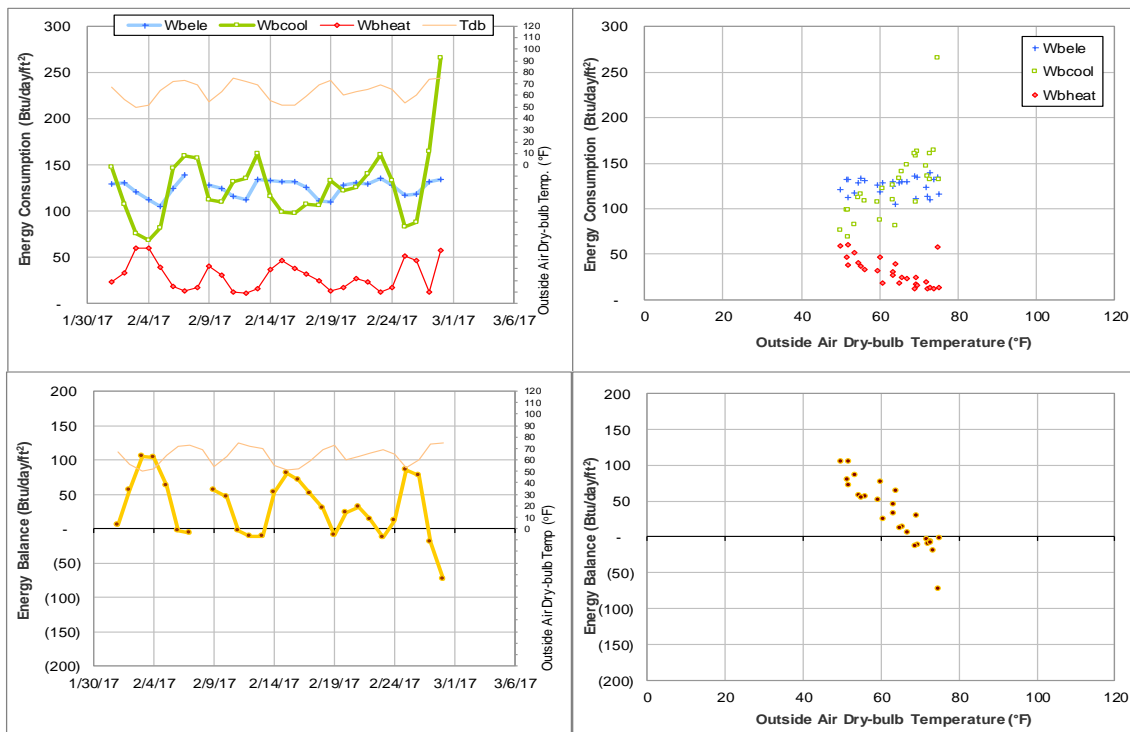


Figure IV-98 Civil Engineering Building TAMU BLDG # 492 Energy Balance Plot during February 2017

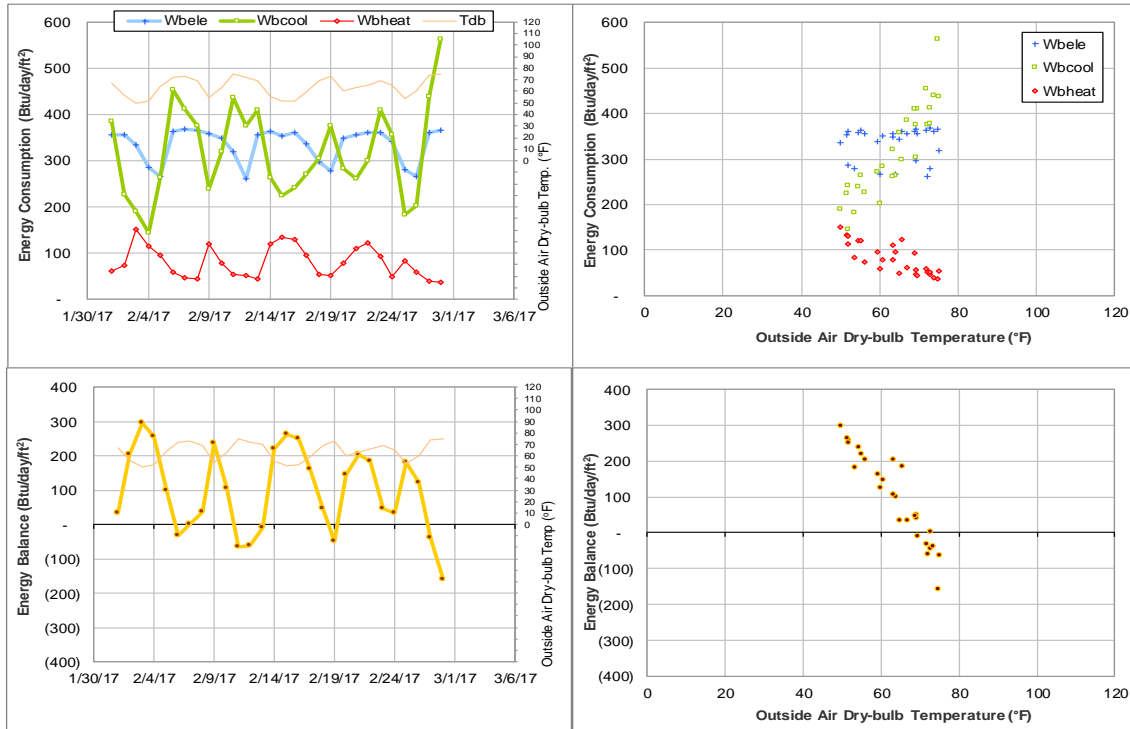


Figure IV-99 Sbis Dining Hall TAMU BLDG # 495 Energy Balance Plot during February 2017

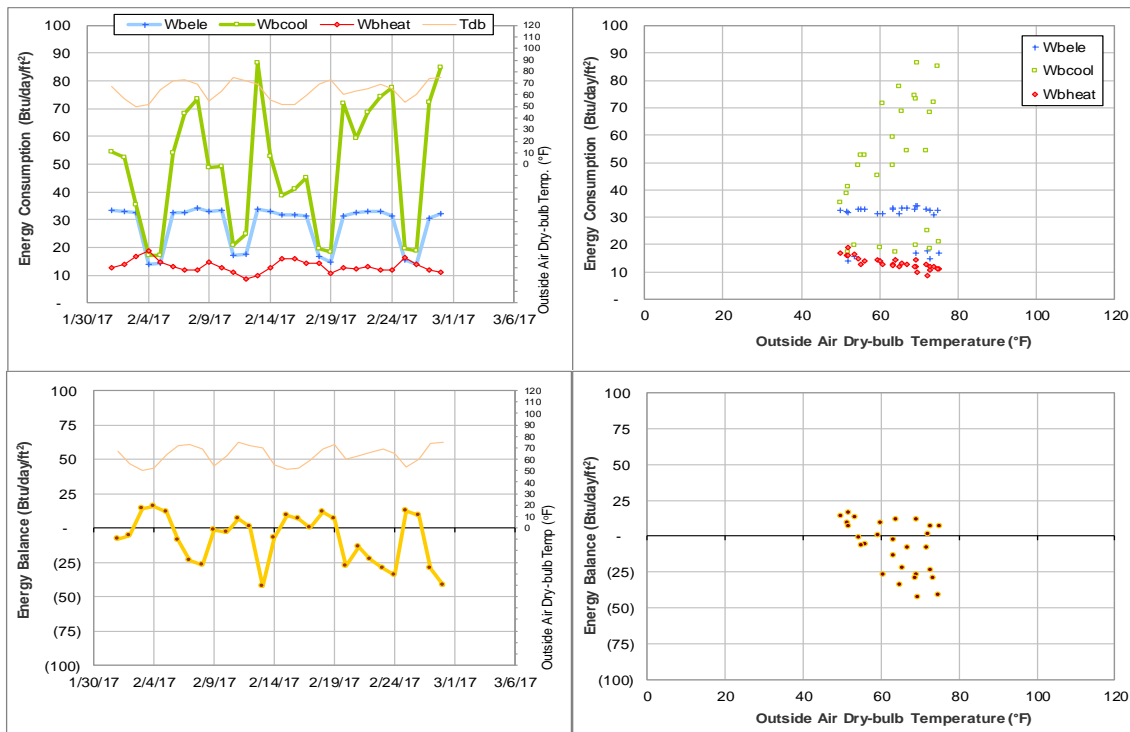


Figure IV-100 Utilities & Energy Services Central Office TAMU BLDG # 496 Energy Balance Plot during February 2017

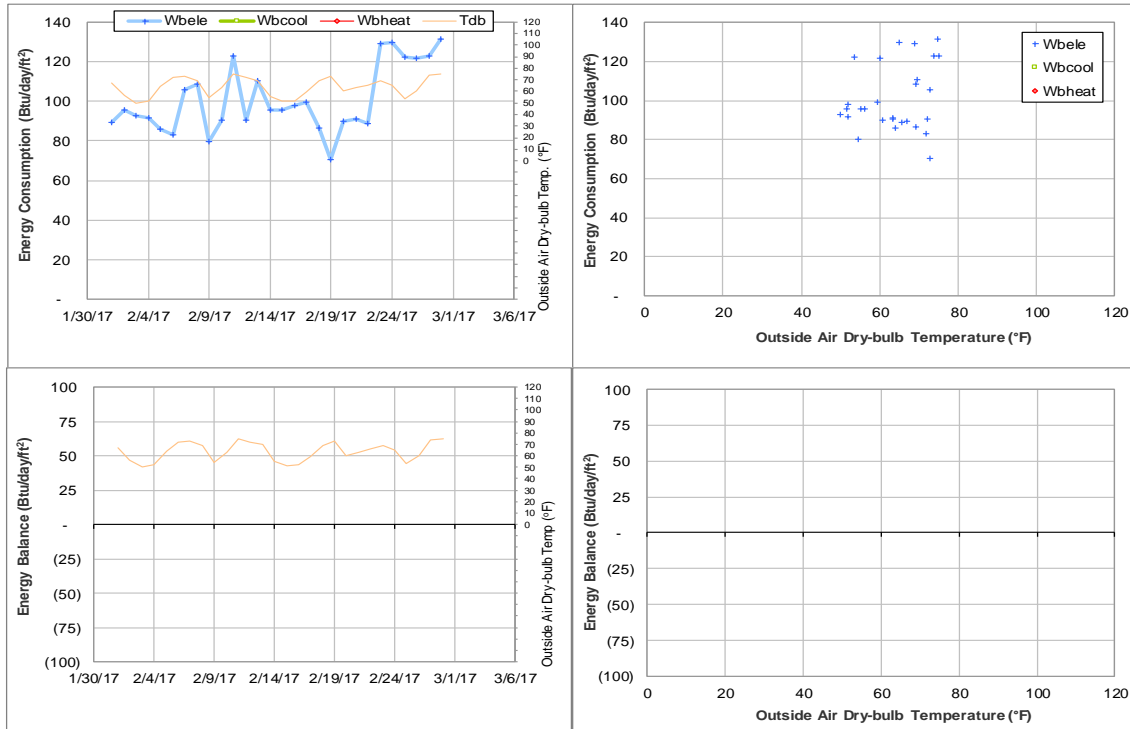


Figure IV-101 Concrete Materials Laboratory TAMU BLDG # 501 Energy Balance Plot during February 2017

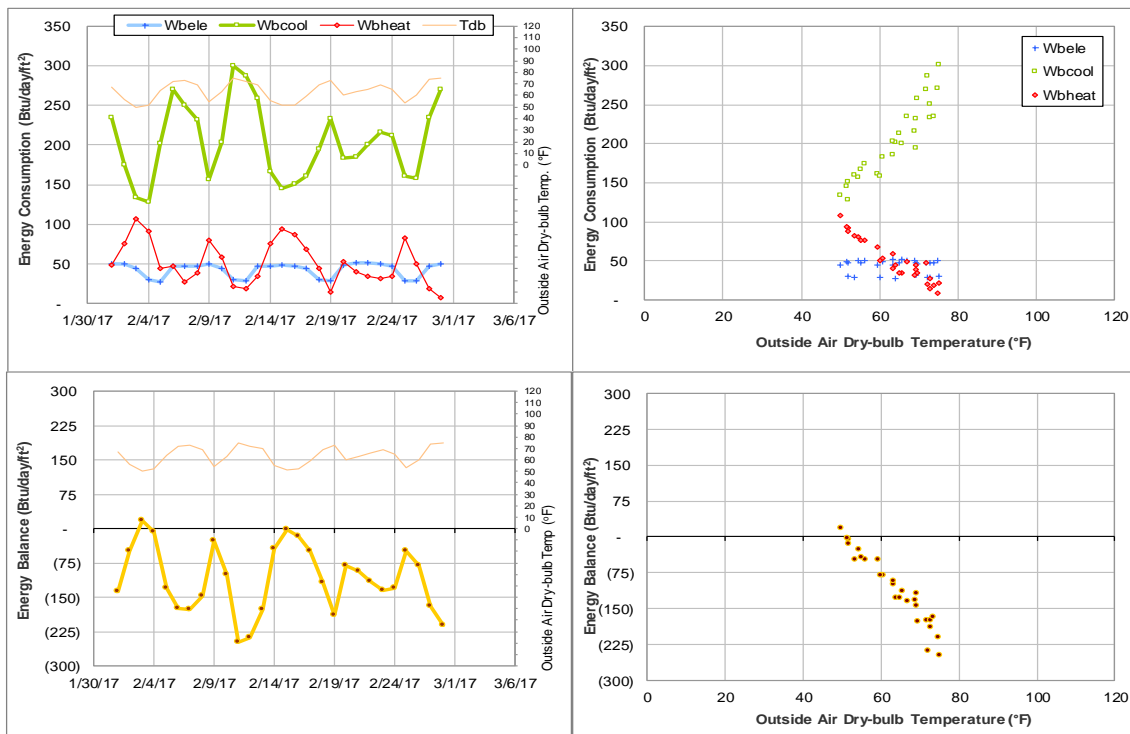


Figure IV-102 Nagle Hall TAMU BLDG # 506 Energy Balance Plot during February 2017

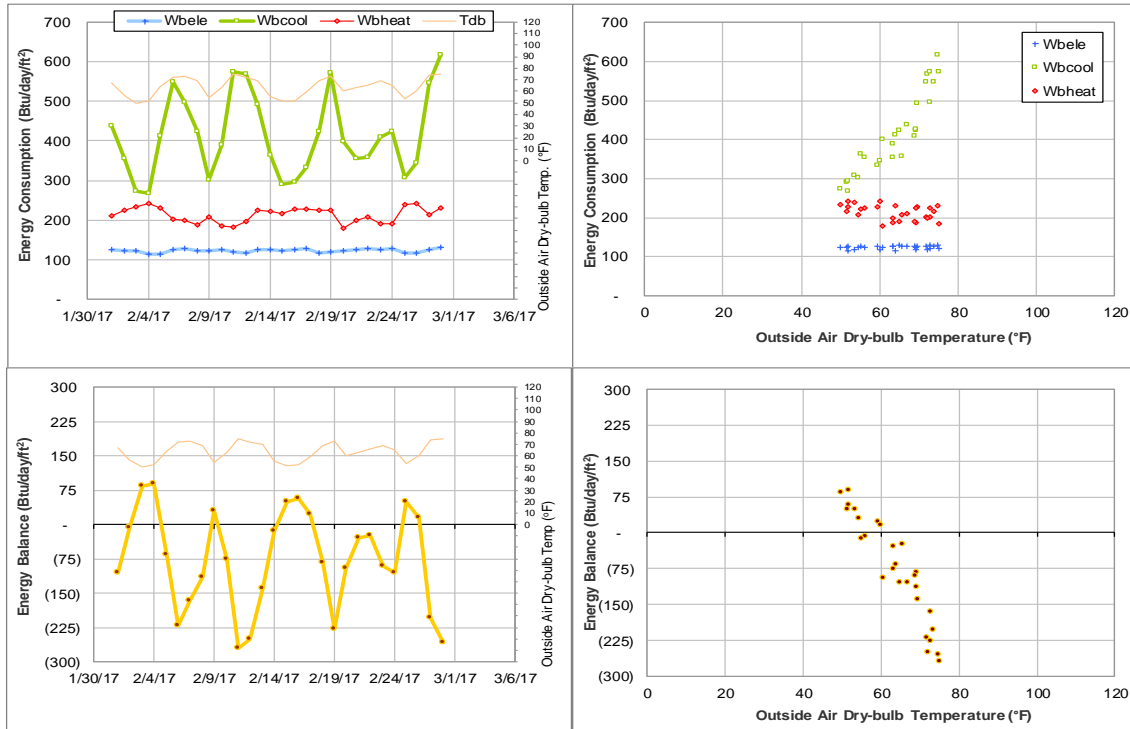


Figure IV-103 Veterinary Medical Science Building TAMU BLDG # 507 Energy Balance Plot during February 2017

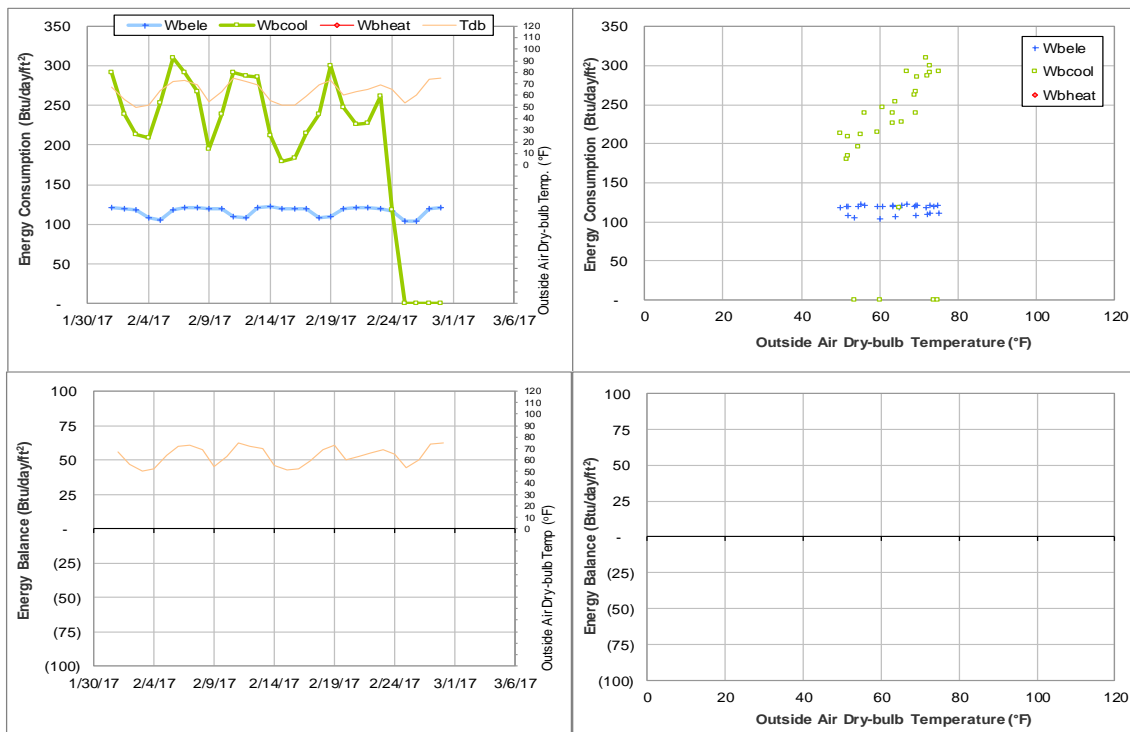


Figure IV-104 Veterinary Teaching Hospital and Med Adm TAMU BLDG # 508 and 1026 Energy Balance Plot during February 2017

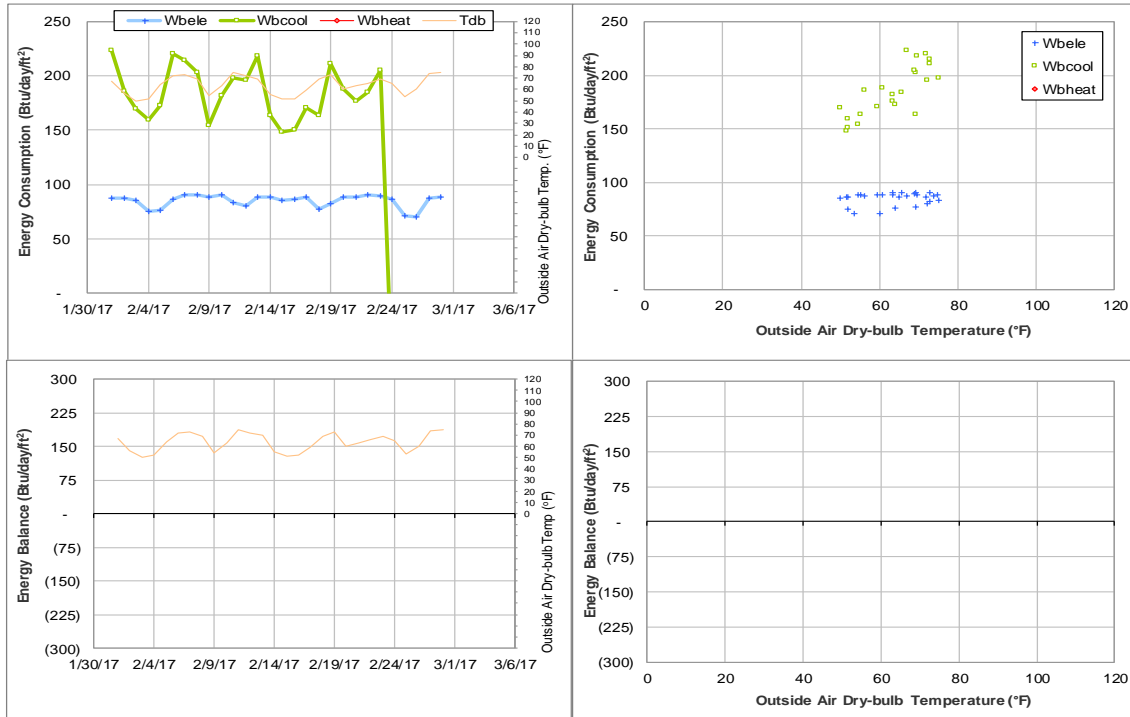


Figure IV-105 Veterinary Teaching Hospital TAMU BLDG # 508 Energy Balance Plot during February 2017

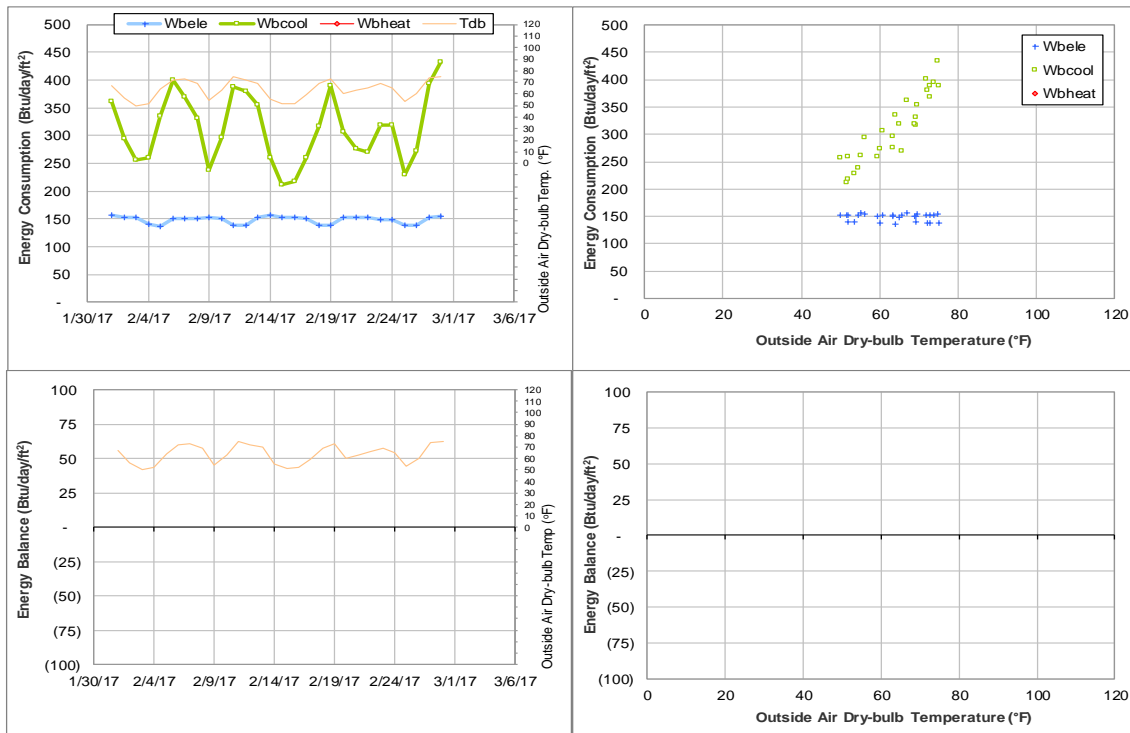


Figure IV-106 Veterinary Medicine Administration TAMU BLDG # 1026 Energy Balance Plot during February 2017

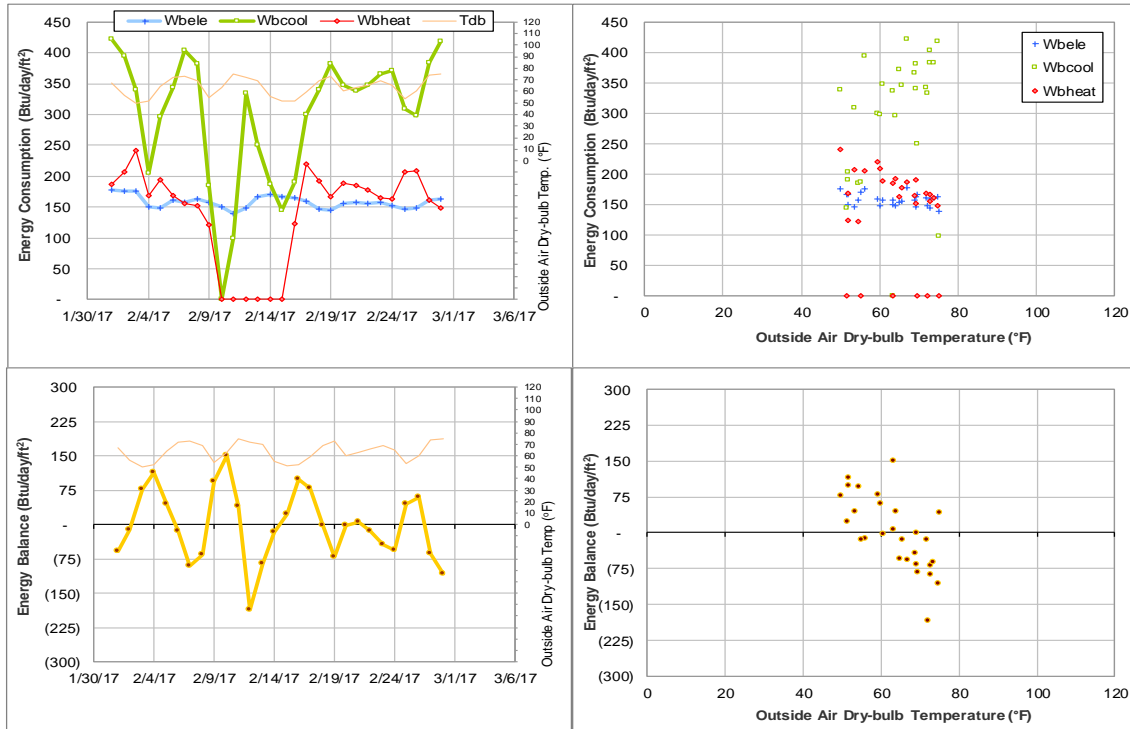


Figure IV-107 Heep Laboratory Building TAMU BLDG # 511 Energy Balance Plot during February 2017

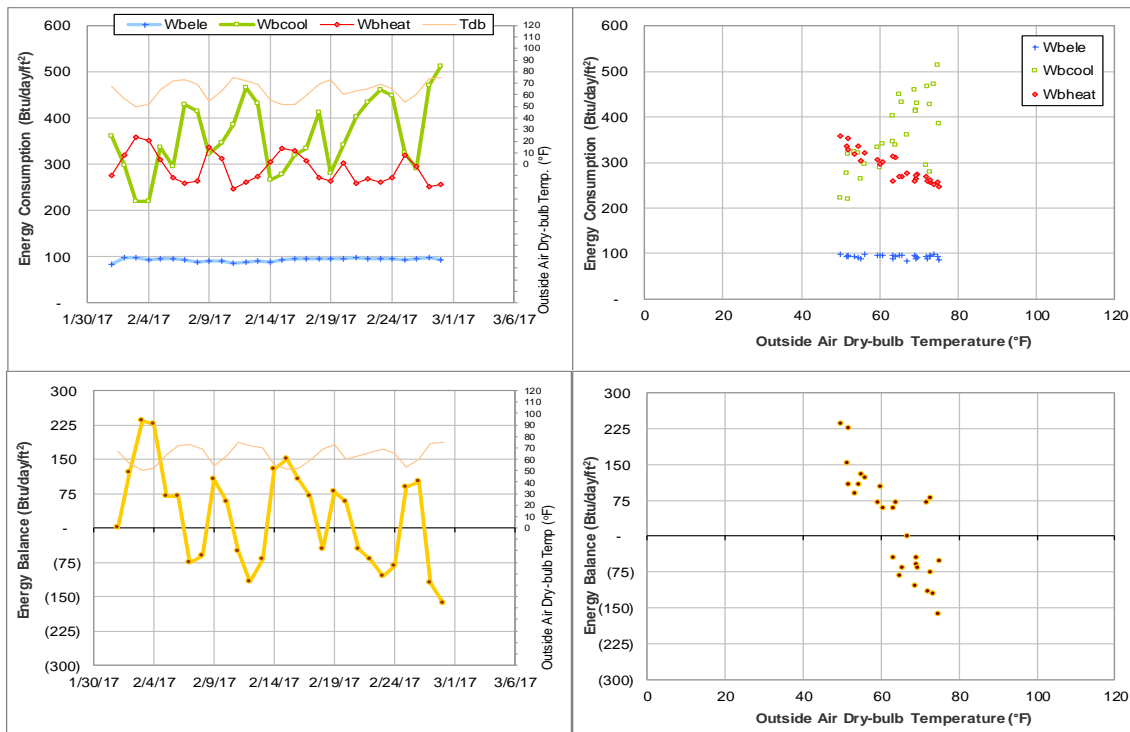


Figure IV-108 All Faiths Chapel TAMU BLDG # 512 Energy Balance Plot during February 2017

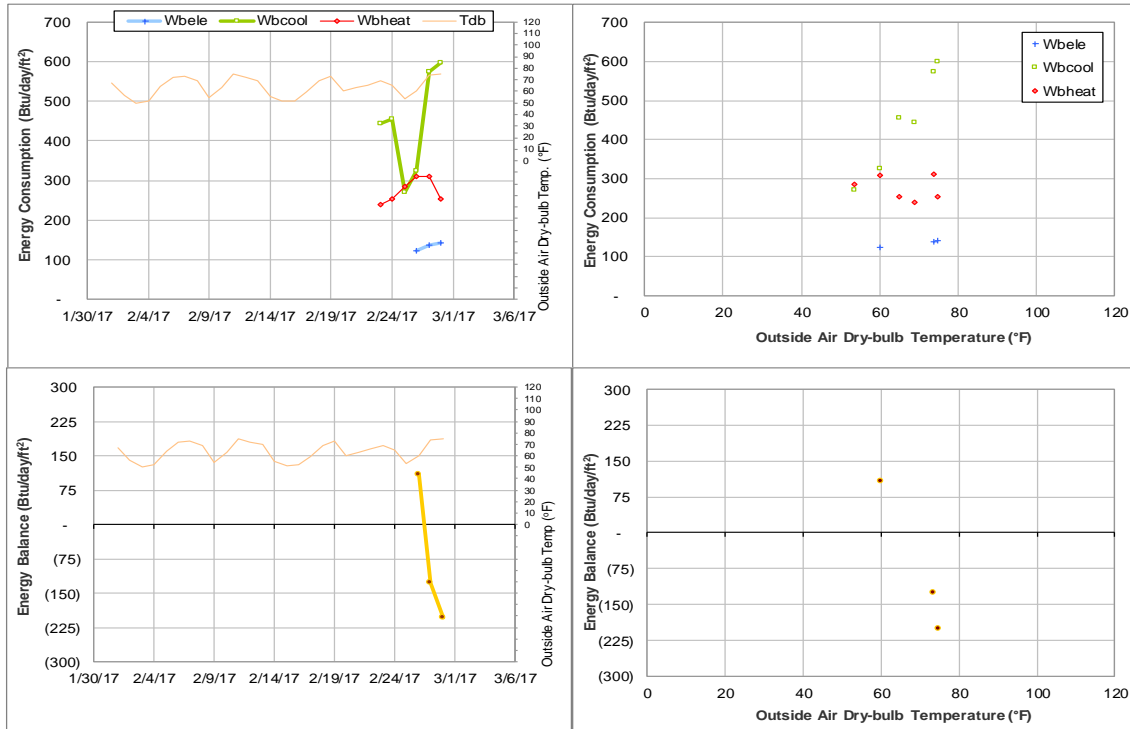


Figure IV-109 Doherty Building TAMU BLDG # 513 Energy Balance Plot during February 2017

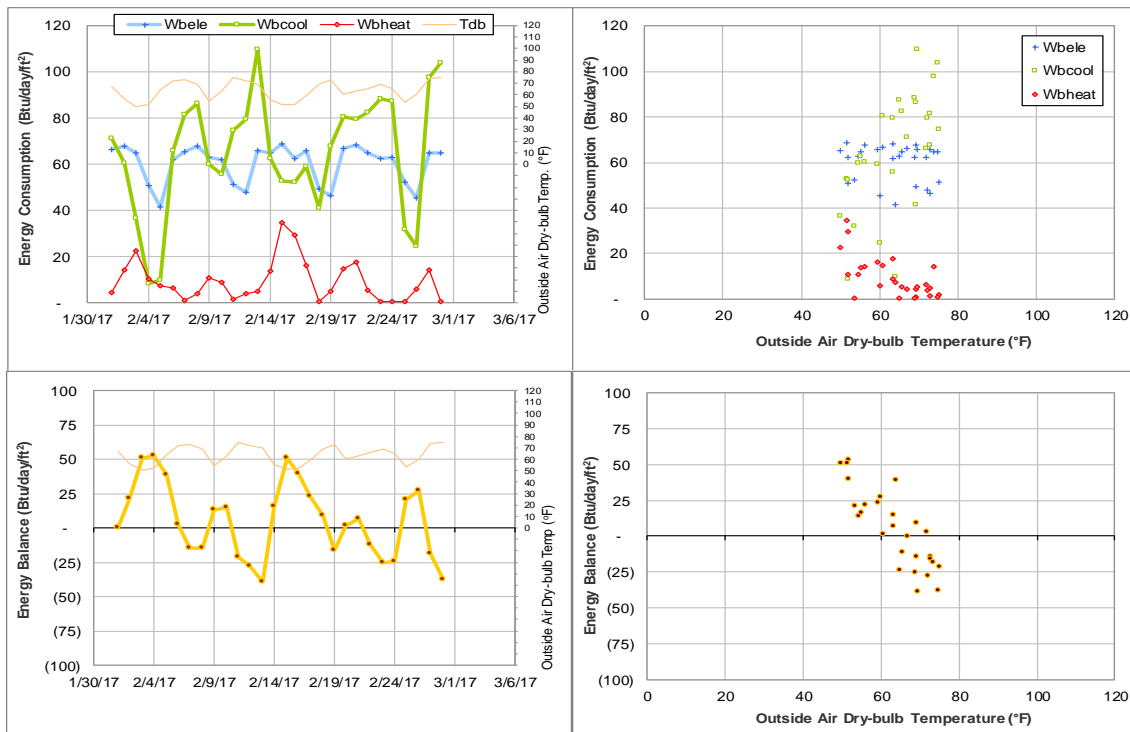


Figure IV-110 Munnerlyn Astronomy & Space Sciences Engineering TAMU BLDG # 514 Energy Balance Plot during February 2017

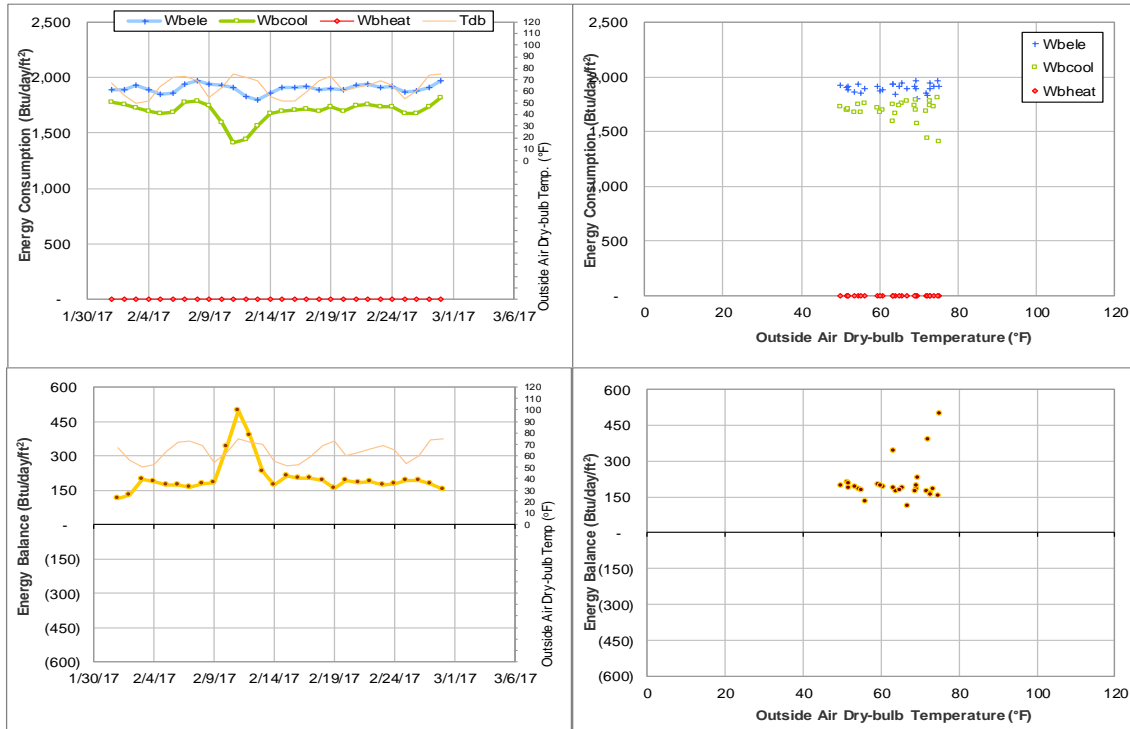


Figure IV-111 Computing Services Center TAMU BLDG # 516 Energy Balance Plot during February 2017

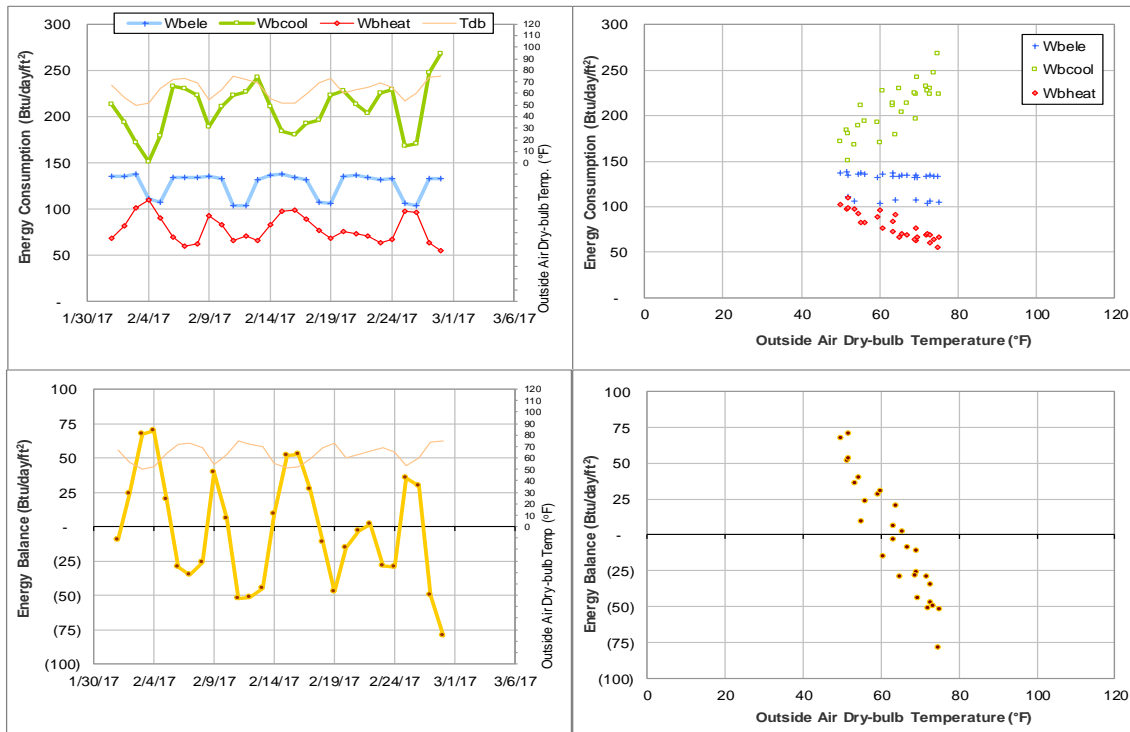


Figure IV-112 Beutel Health Center TAMU BLDG # 520 Energy Balance Plot during February 2017

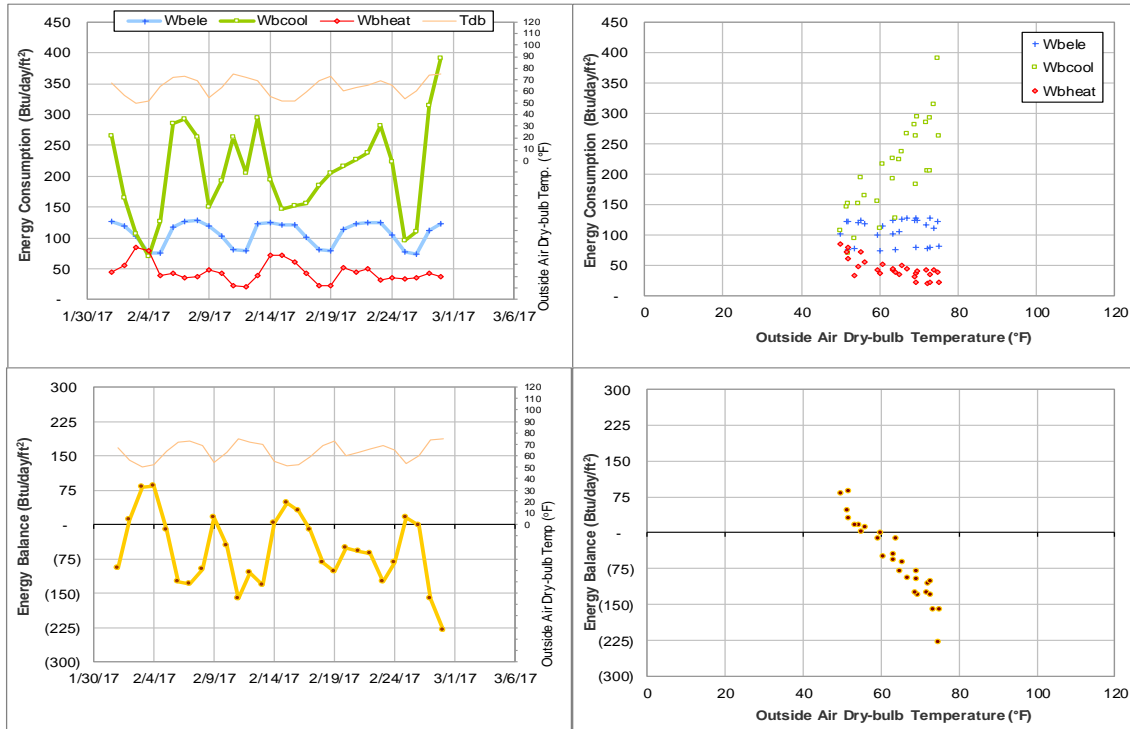


Figure IV-113 Heldenfels Hall TAMU BLDG # 521 Energy Balance Plot during February 2017

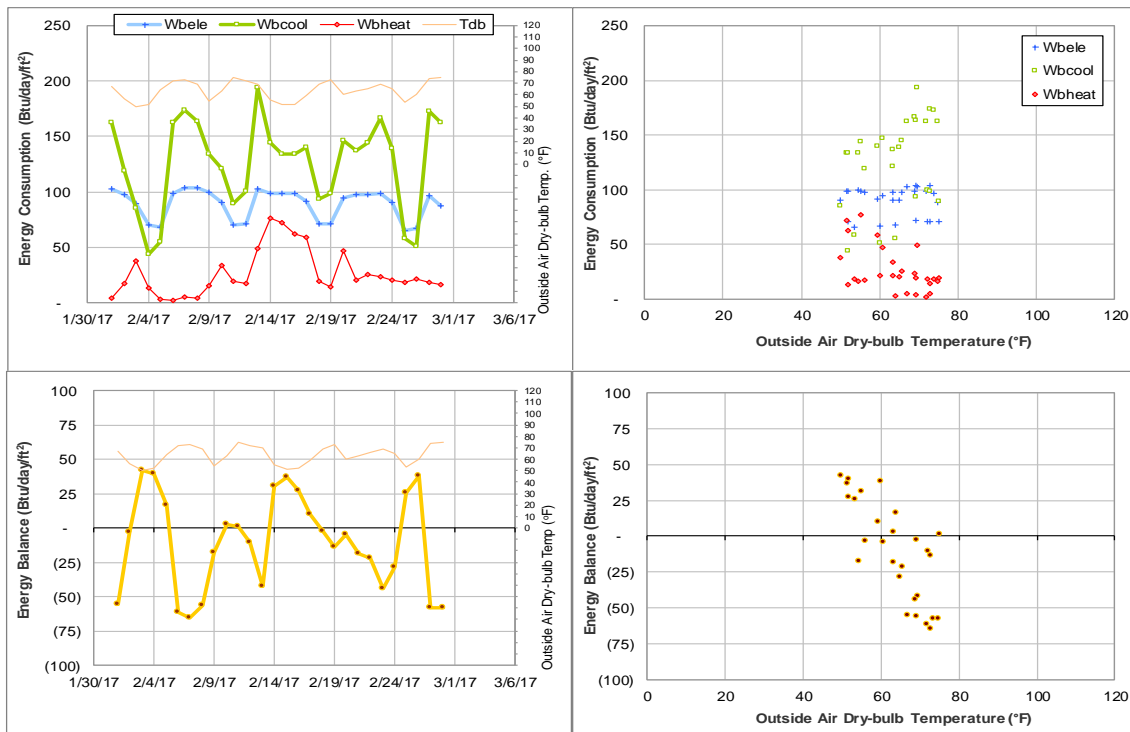


Figure IV-114 Blocker building TAMU BLDG # 524 Energy Balance Plot during February 2017

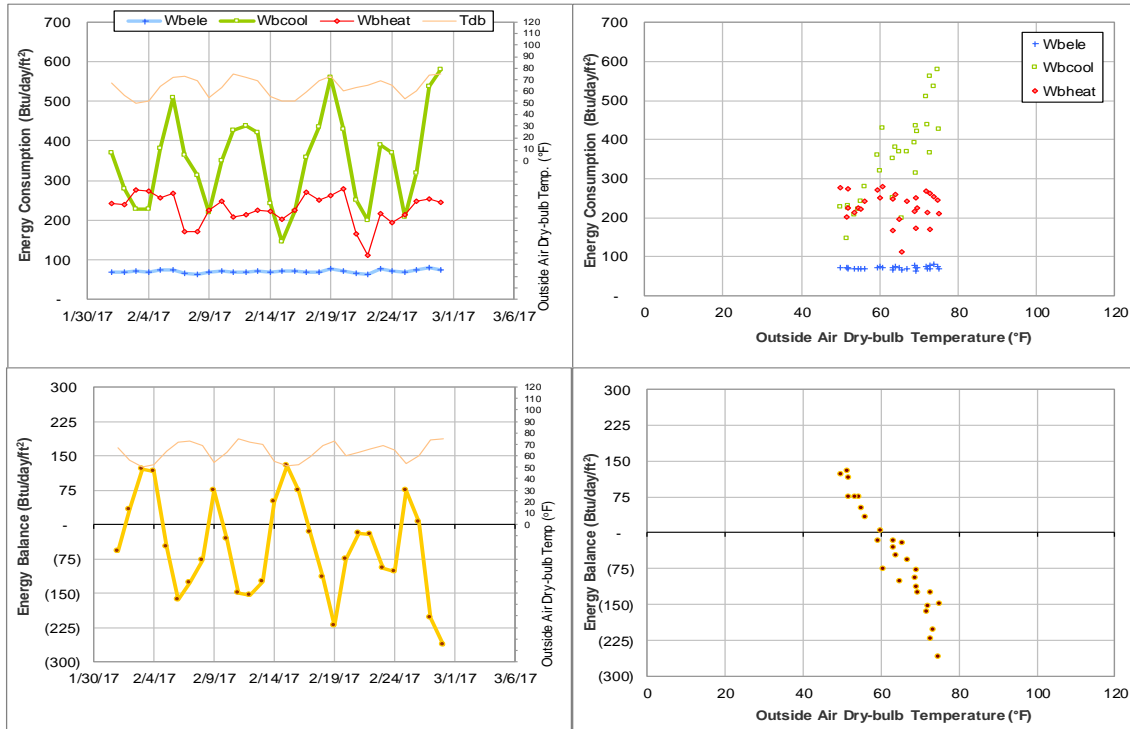


Figure IV-115 Clements Residence Hall TAMU BLDG # 548 Energy Balance Plot during February 2017

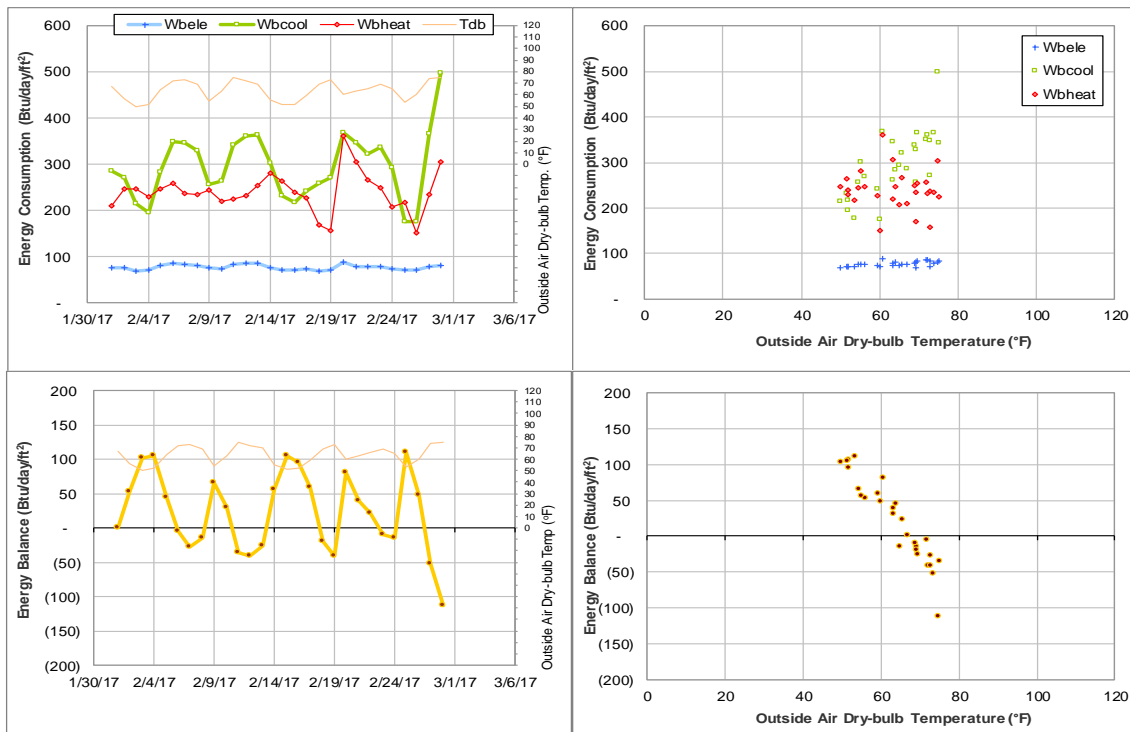


Figure IV-116 Haas Residence Hall TAMU BLDG # 549 Energy Balance Plot during February 2017

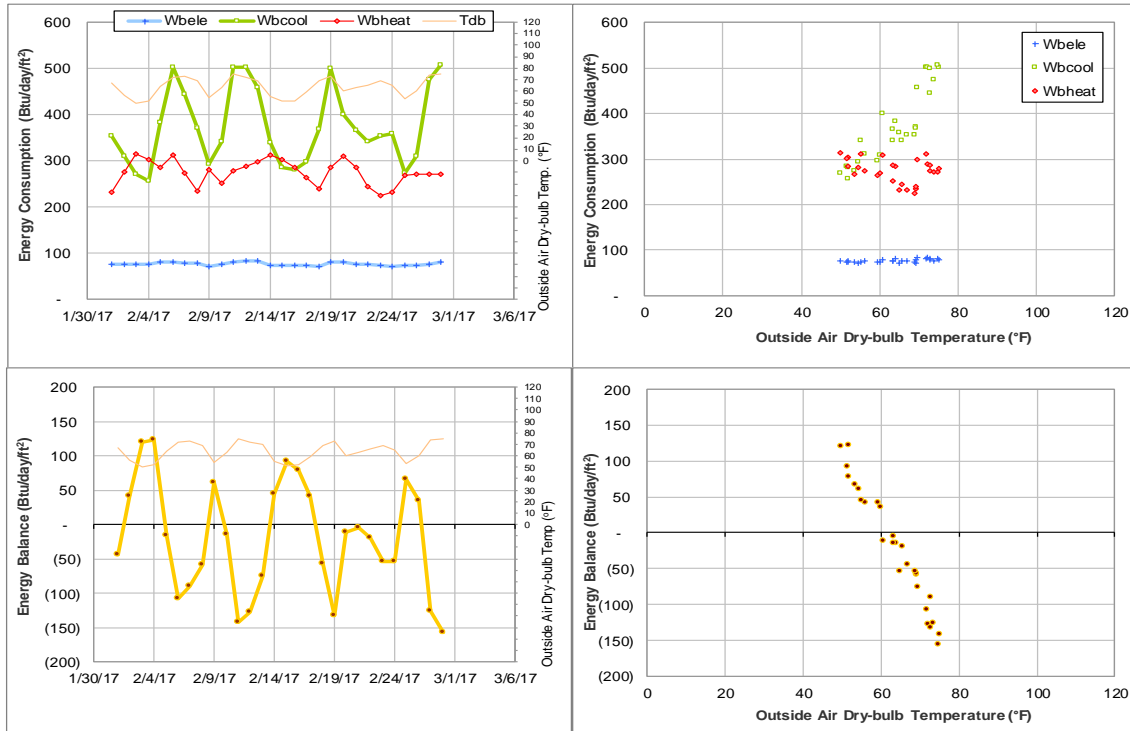


Figure IV-117 McFadden Residence Hall TAMU BLDG # 550 Energy Balance Plot during February 2017

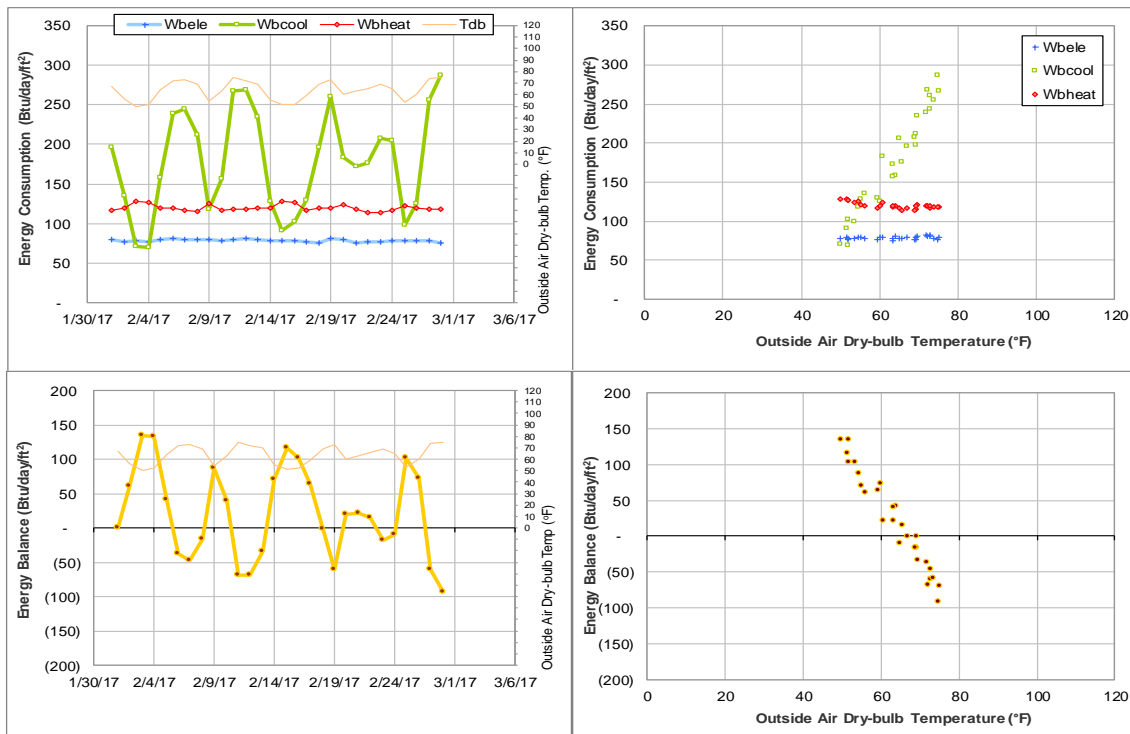


Figure IV-118 Neeley Residence Hall TAMU BLDG # 652 Energy Balance Plot during February 2017

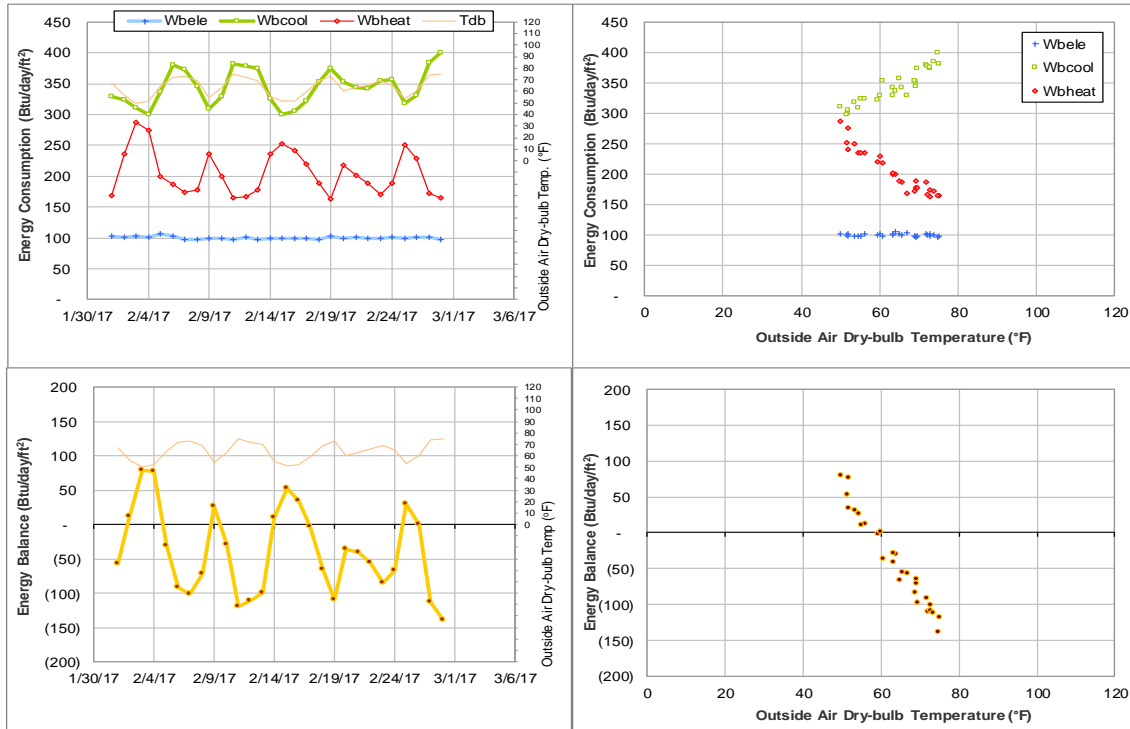


Figure IV-119 Hobby Residence Hall TAMU BLDG # 653 Energy Balance Plot during February 2017

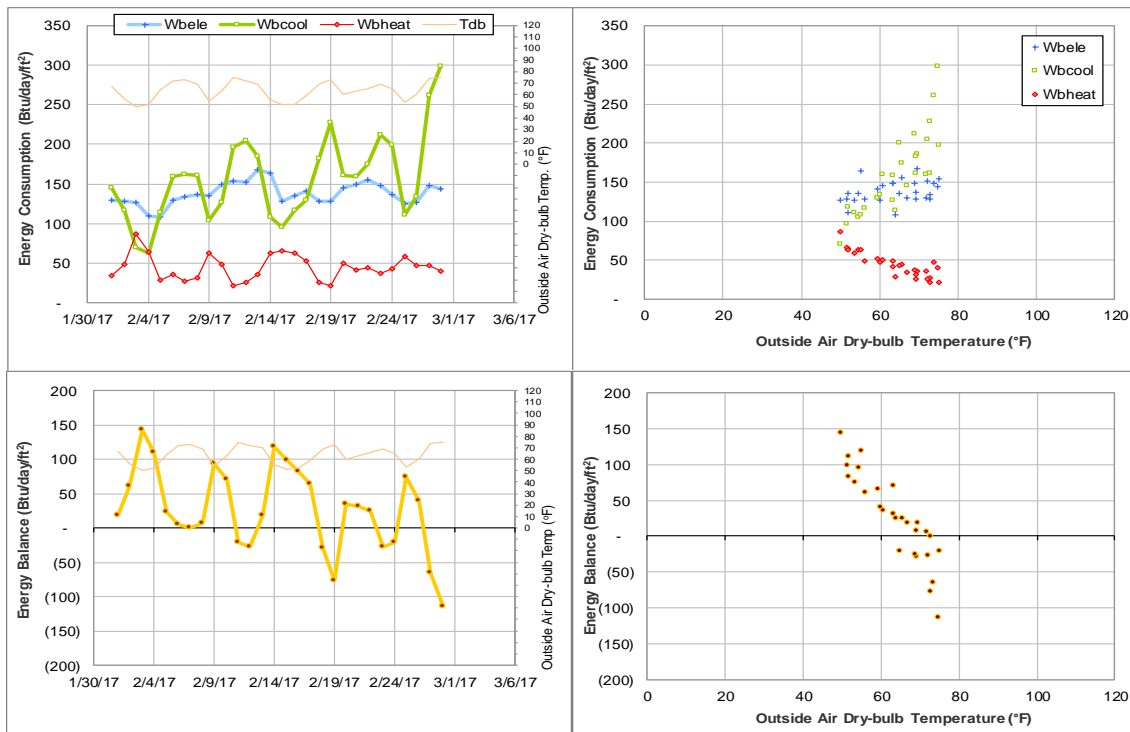


Figure IV-120 Wisenbaker Engineering Research Center TAMU BLDG # 682 Energy Balance Plot during February 2017

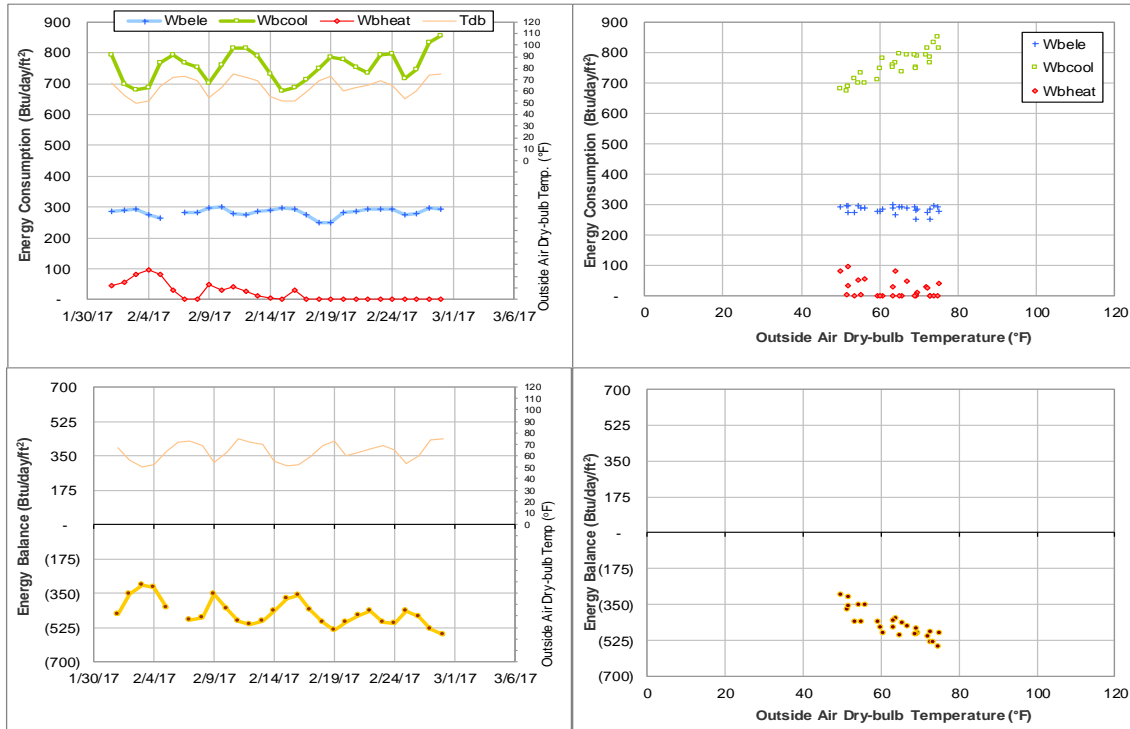


Figure IV-121 McNew Laboratory TAMU BLDG # 740 Energy Balance Plot during February 2017

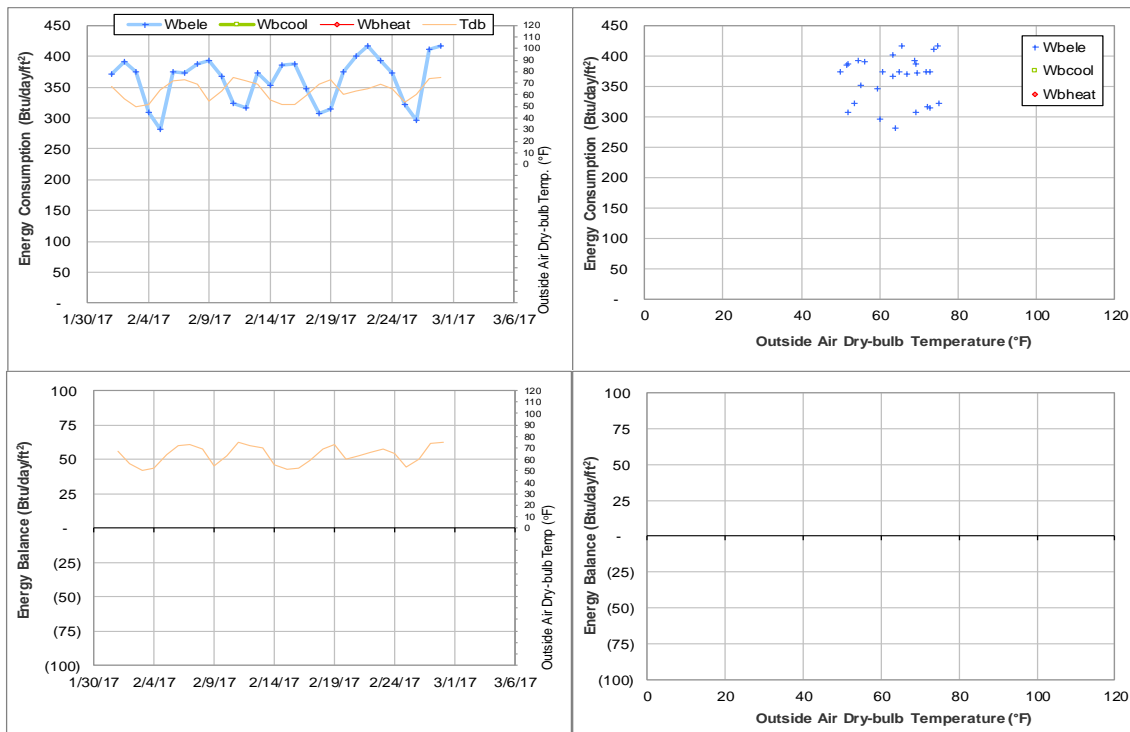


Figure IV-122 Soil Testing Labs TAMU BLDG # 806 Energy Balance Plot during February 2017

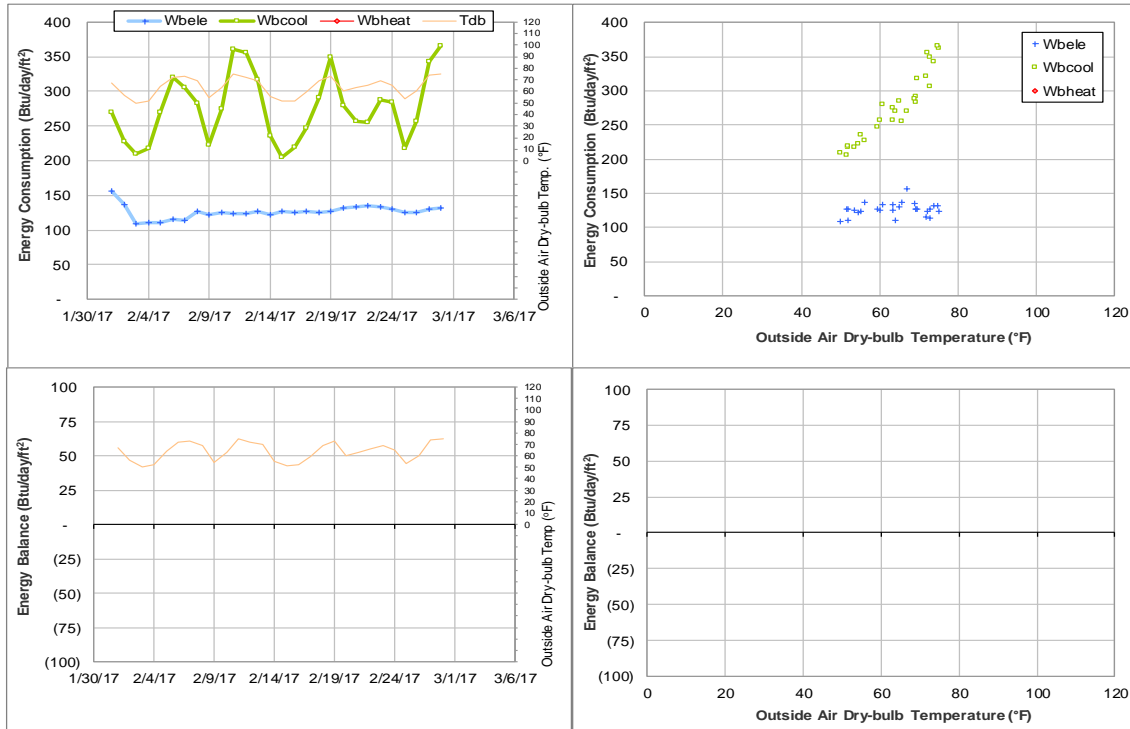


Figure IV-123 Entomology Research Lab TAMU BLDG # 815 Energy Balance Plot during February 2017

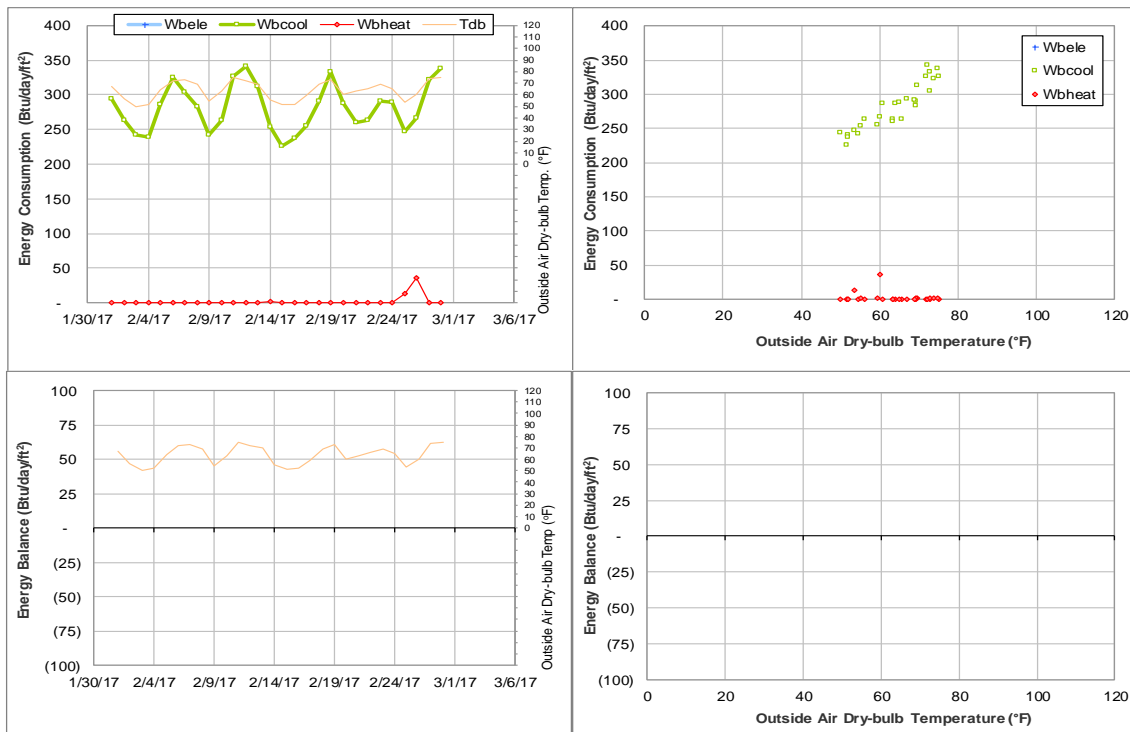


Figure IV-124 TVMC-Small Animal Building TAMU BLDG # 880 Energy Balance Plot during February 2017

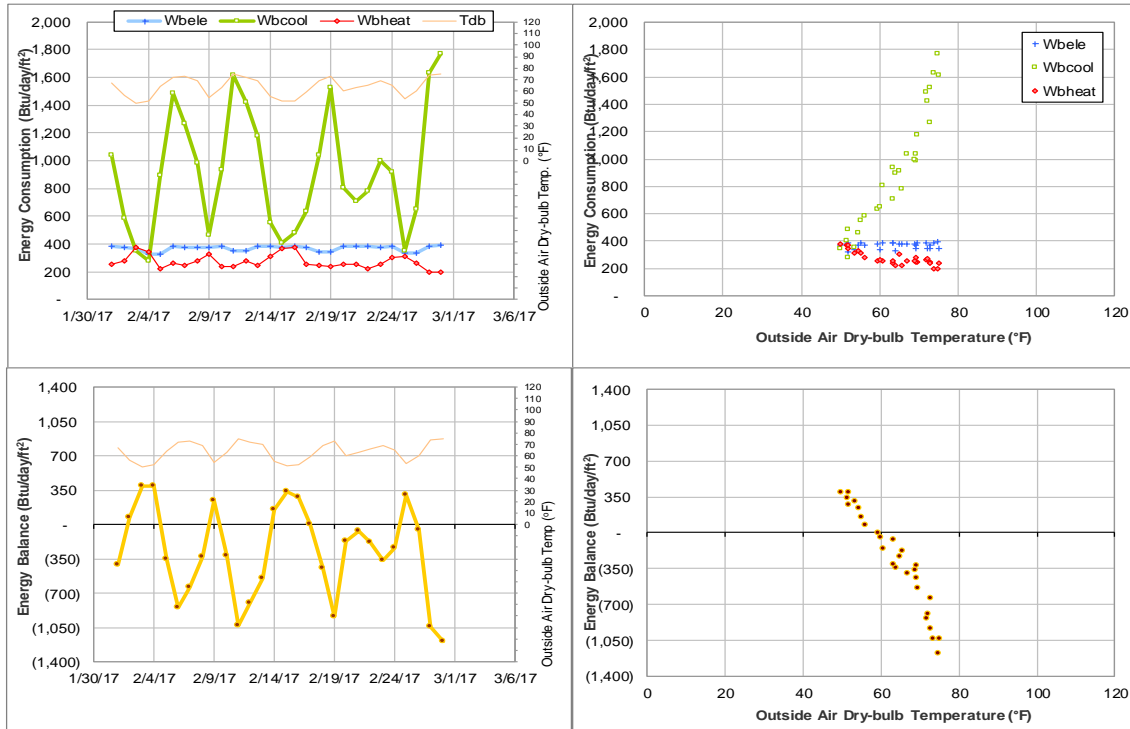


Figure IV-125 Laboratory Animal Care Building TAMU BLDG # 972 Energy Balance Plot during February 2017

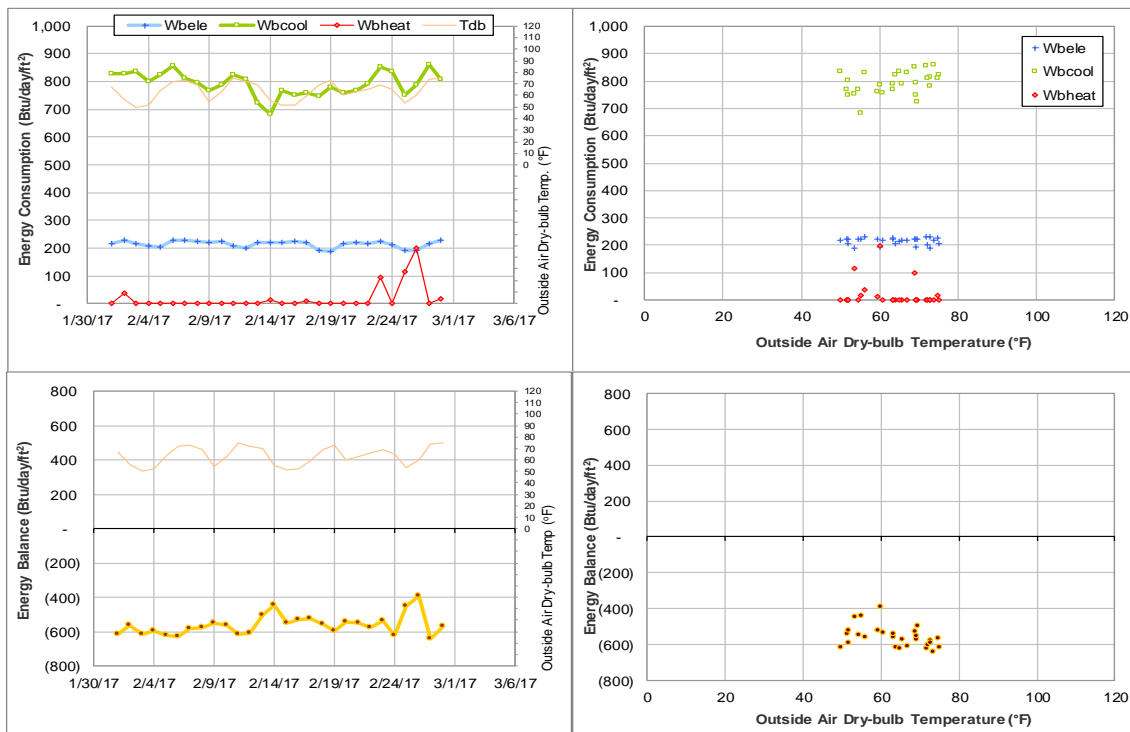


Figure IV-126 Vivarium III TAMU BLDG # 1020 Energy Balance Plot during February 2017

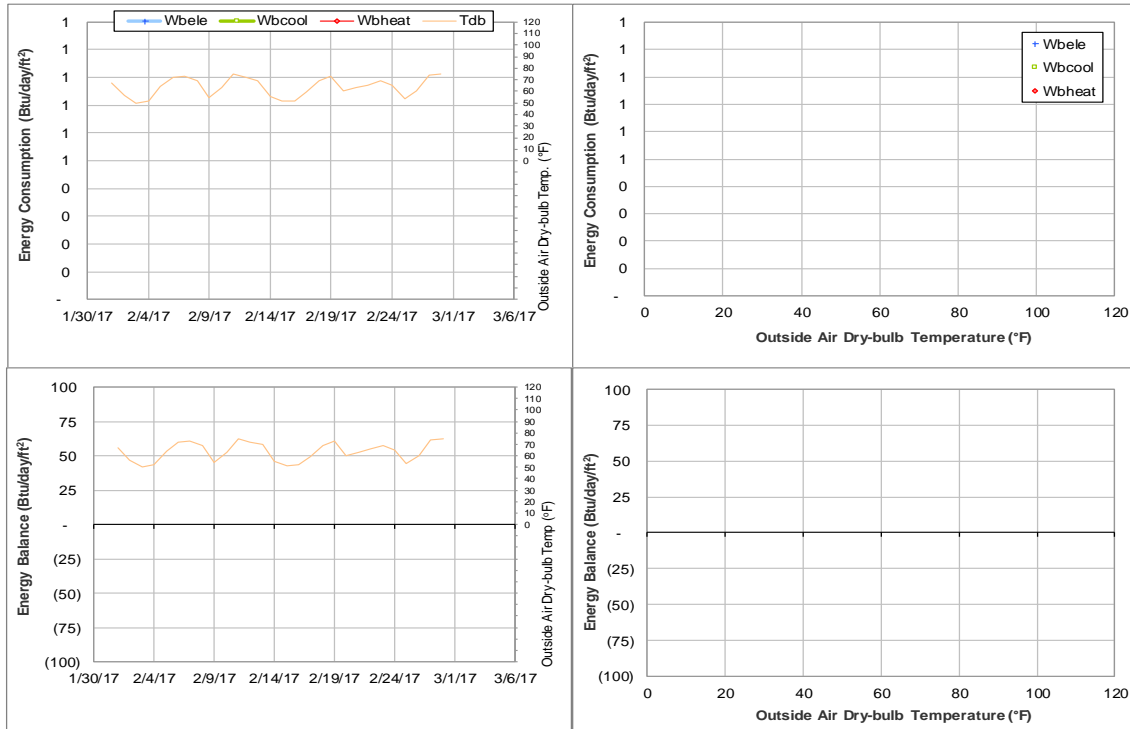


Figure IV-127 Texas Vet Med Diagnostic Lab TAMU BLDG # 1041 Energy Balance Plot during February 2017

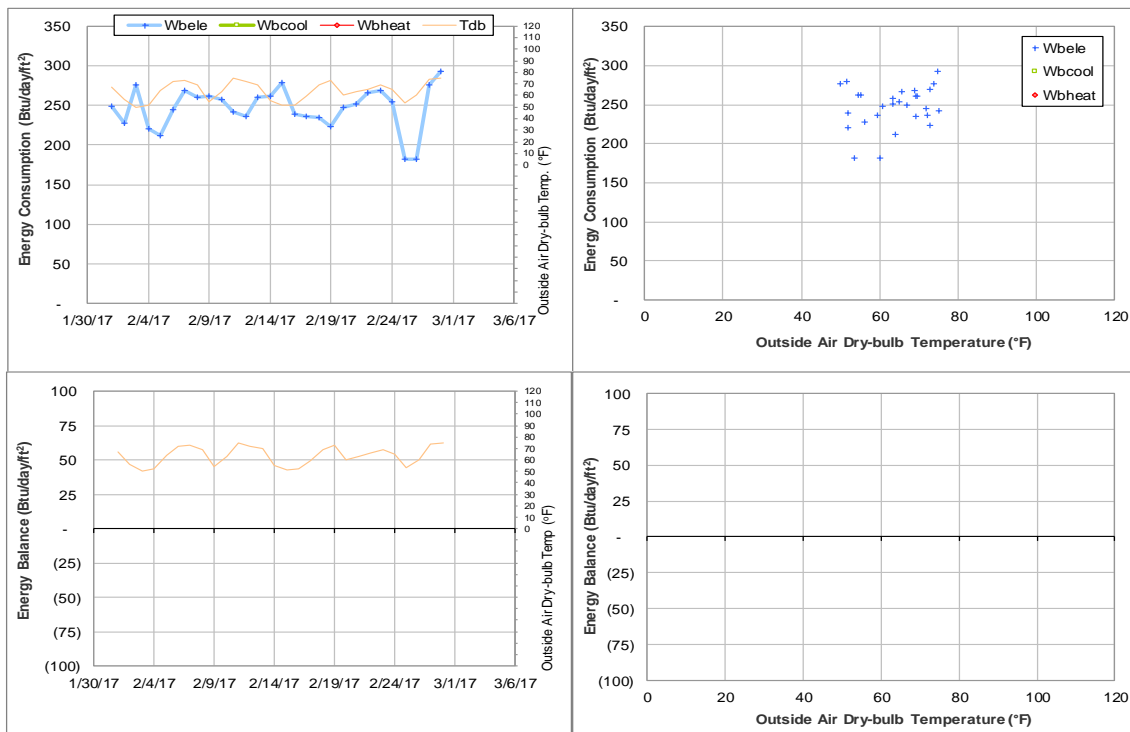


Figure IV-128 Forest Science Laboratory Building TAMU BLDG # 1042 Energy Balance Plot during February 2017

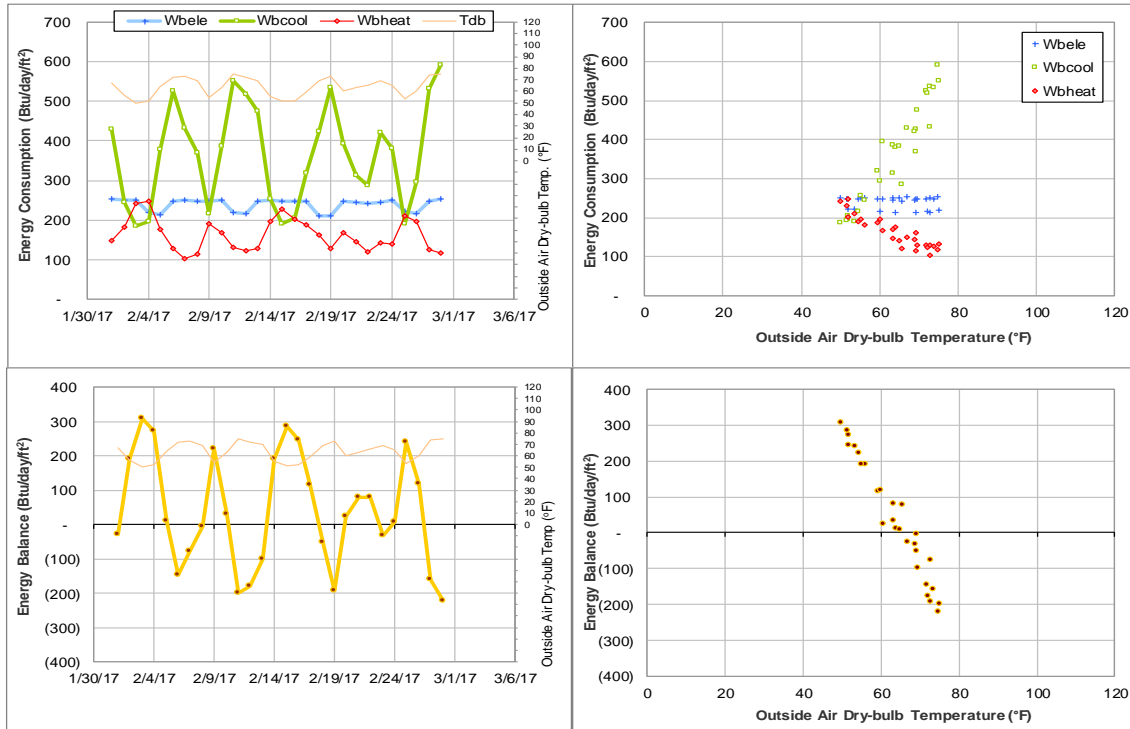


Figure IV-129 Veterinary Small Animal Hospital TAMU BLDG # 1085 Energy Balance Plot during February 2017

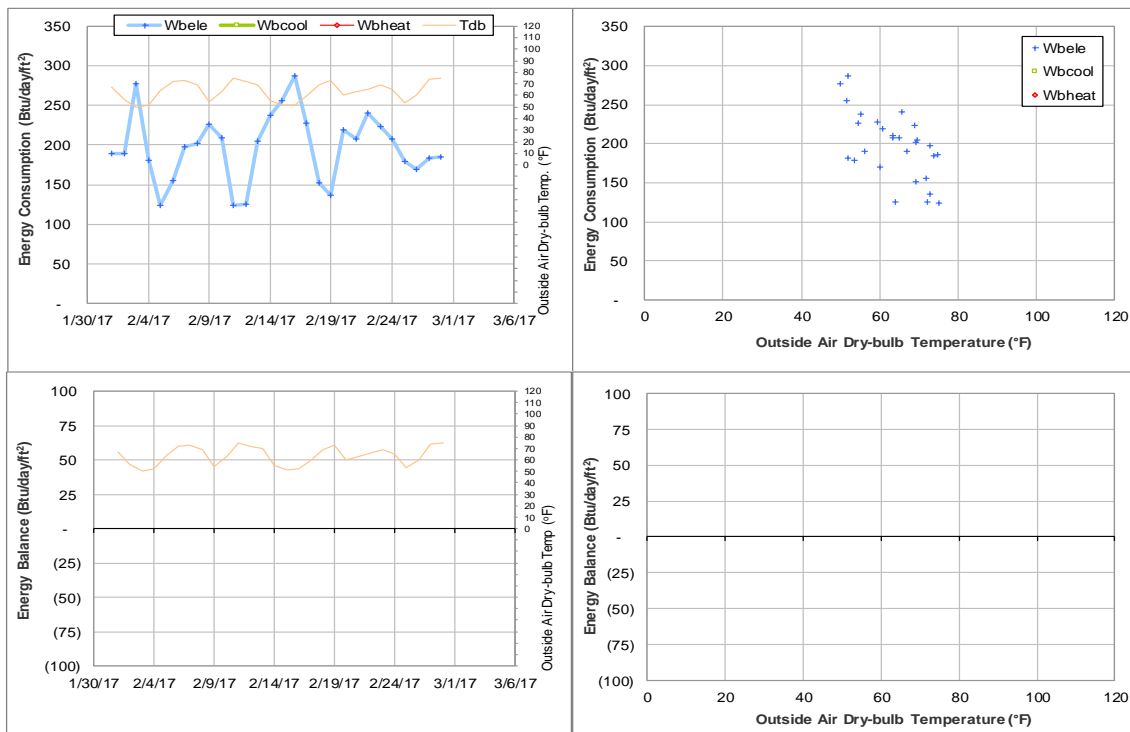


Figure IV-130 Utilities Energy Office Annex TAMU BLDG # 1089 Energy Balance Plot during February 2017

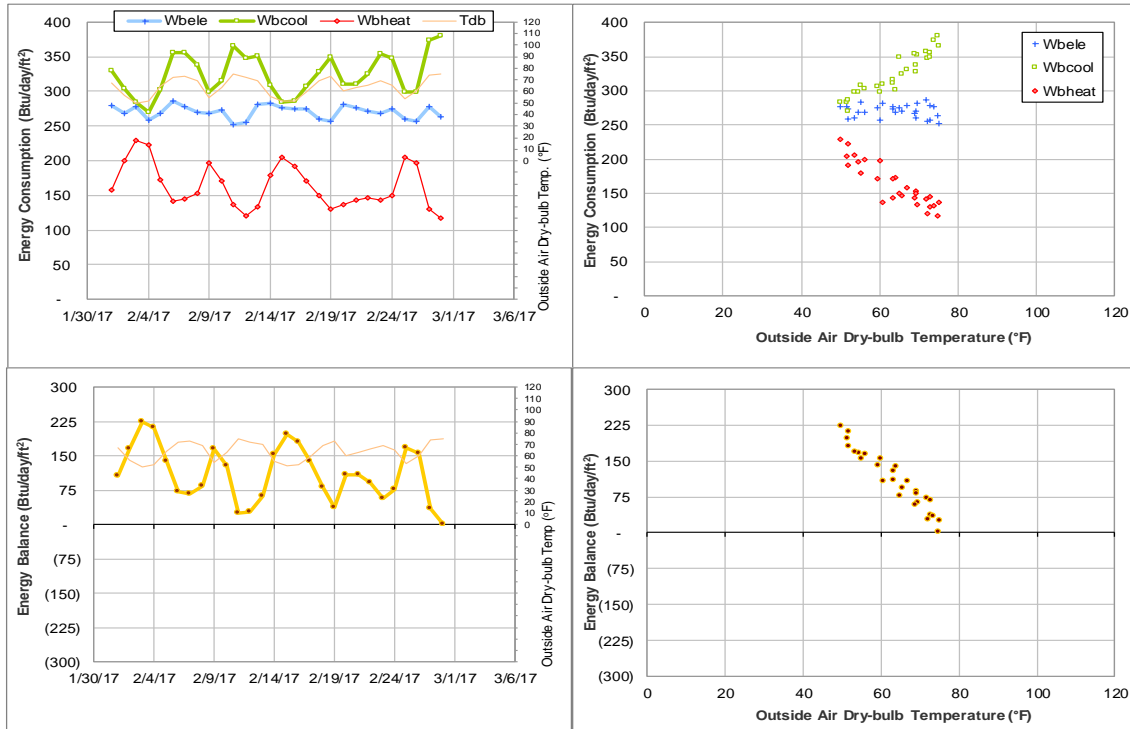


Figure IV-131 Biological Control Facility TAMU BLDG # 1146 Energy Balance Plot during February 2017

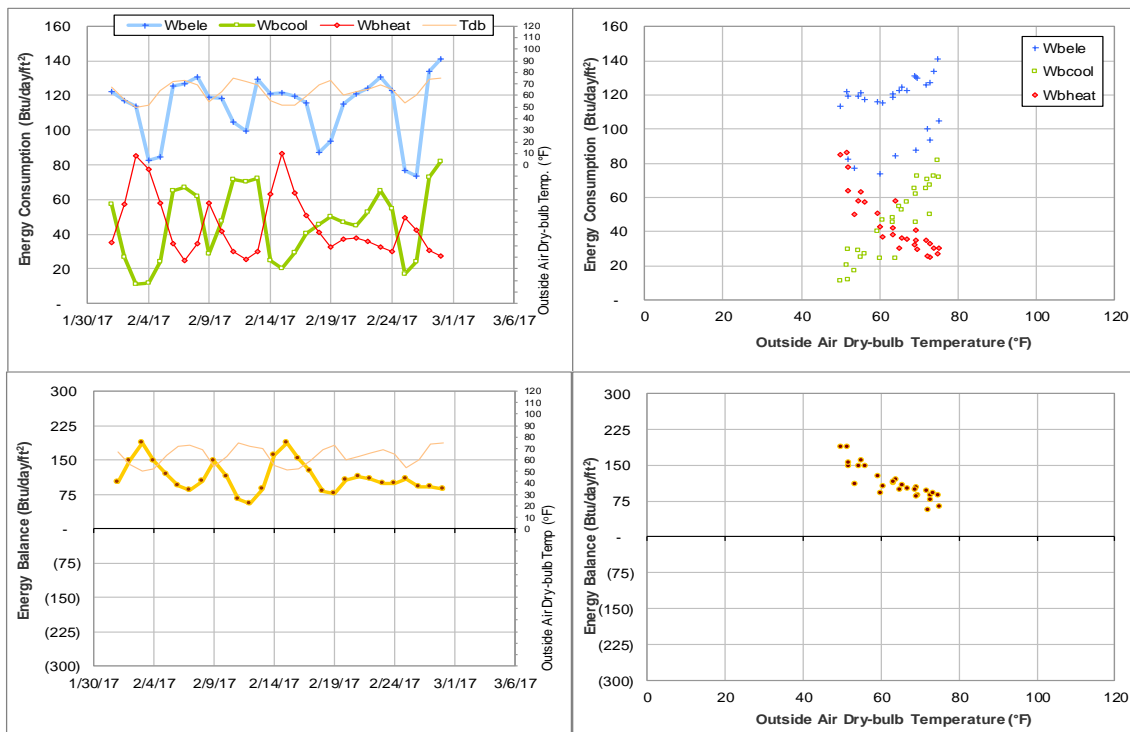


Figure IV-132 Physical Plant Administration & Shops TAMU BLDG # 1156 Energy Balance Plot during February 2017

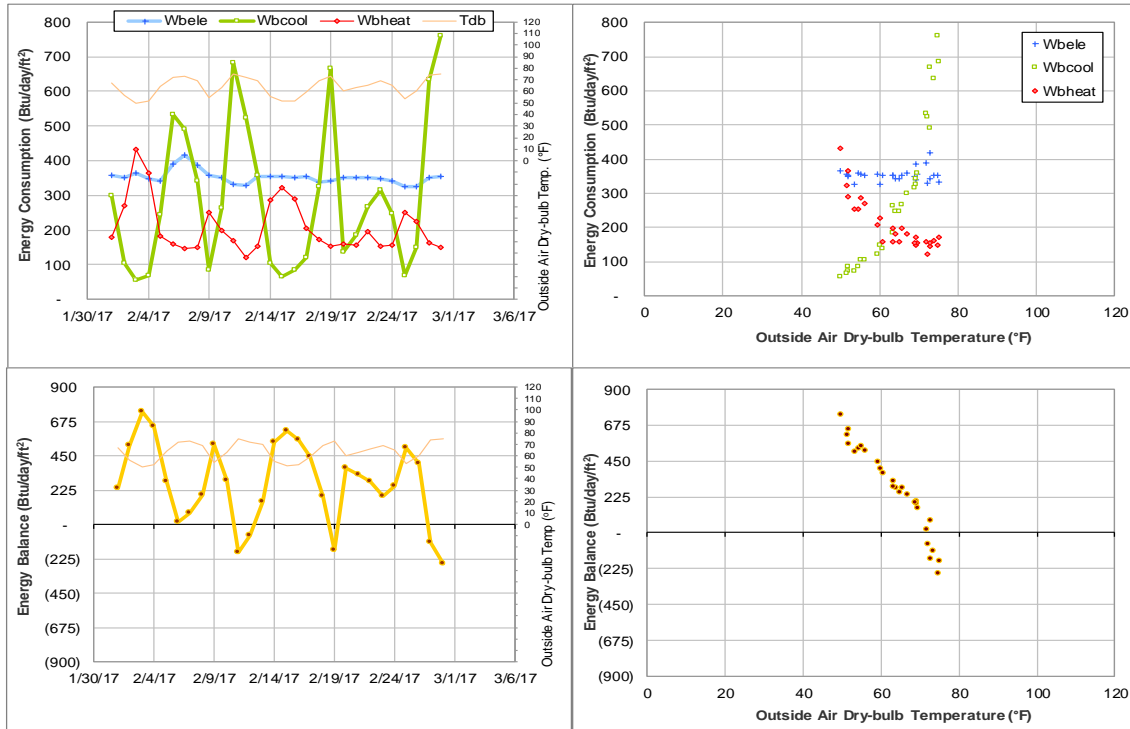


Figure IV-133 Veterinary Anatomic Pathology TAMU BLDG # 1184 Energy Balance Plot during February 2017

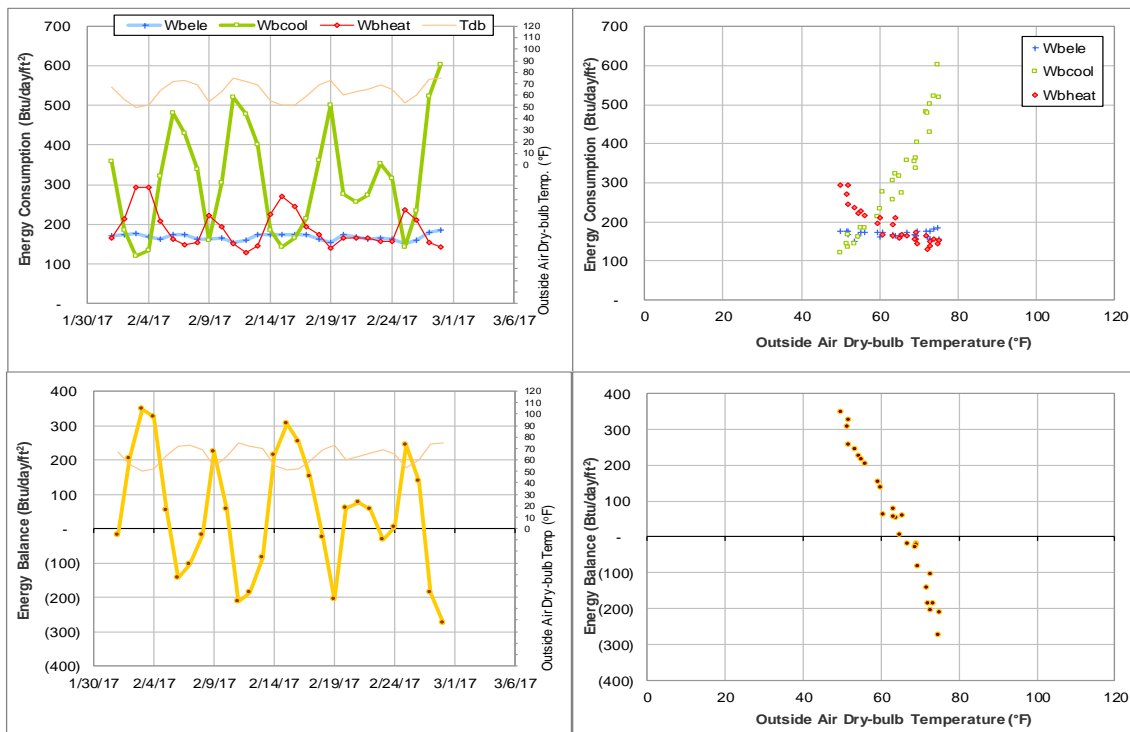


Figure IV-134 Veterinary Large Animal Hospital TAMU BLDG # 1194 Energy Balance Plot during February 2017

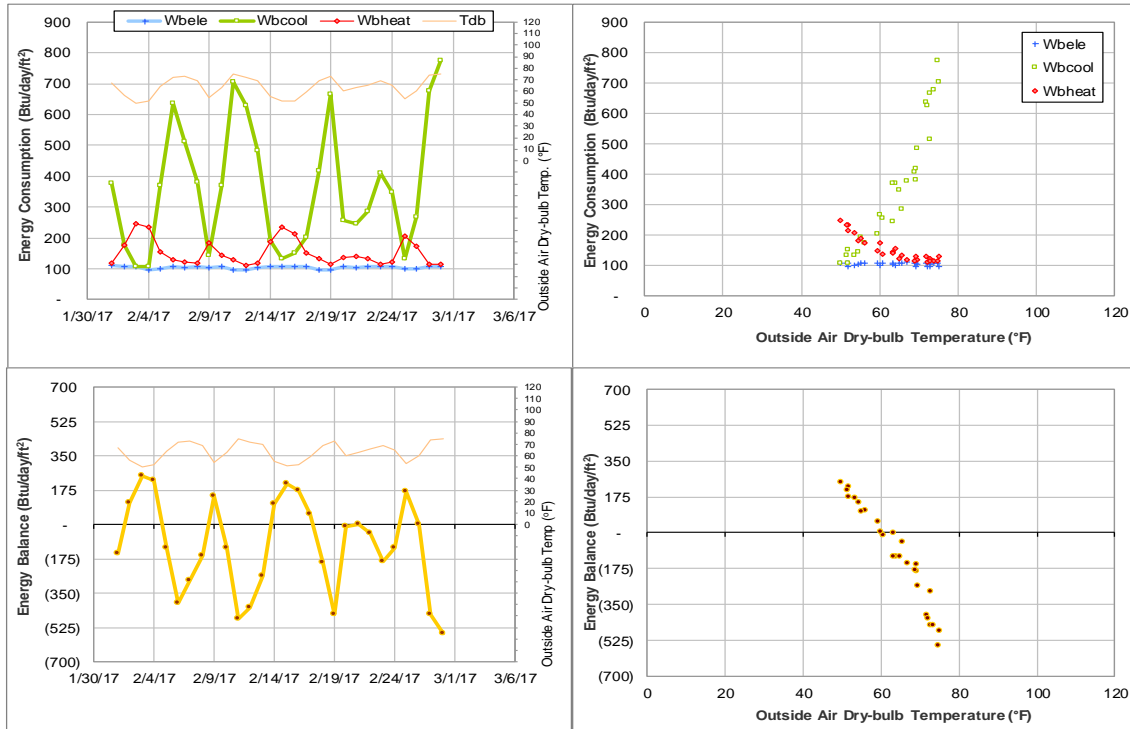


Figure IV-135 Veterinary Research Building TAMU BLDG # 1197 Energy Balance Plot during February 2017

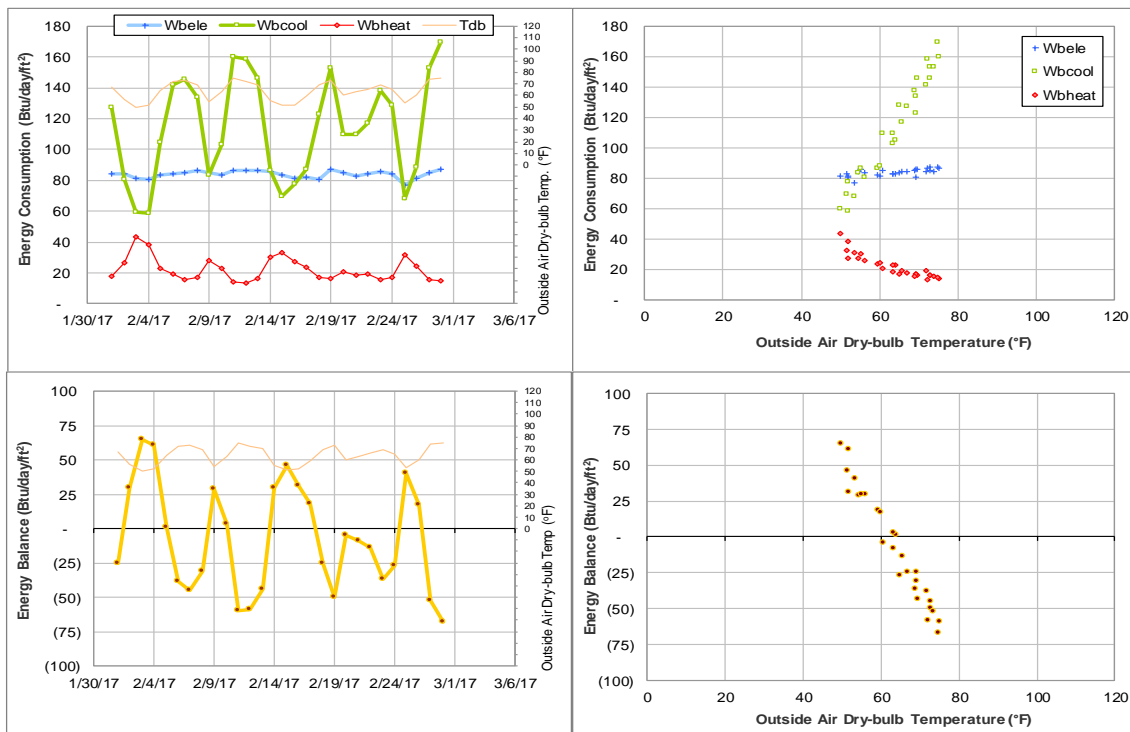


Figure IV-136 Hullabaloo Residence Hall TAMU BLDG # 1416 Energy Balance Plot during February 2017

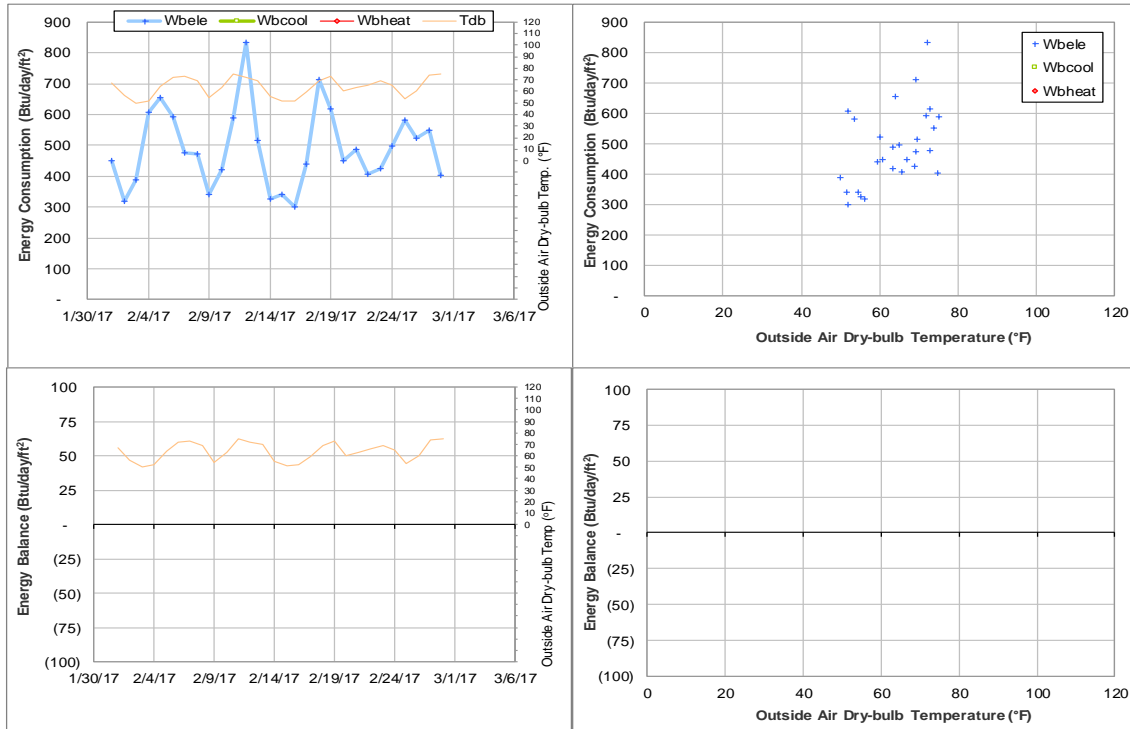


Figure IV-137 University Apartments - Laundry at the Gardens TAMU BLDG # 1450 Energy Balance Plot during February 2017

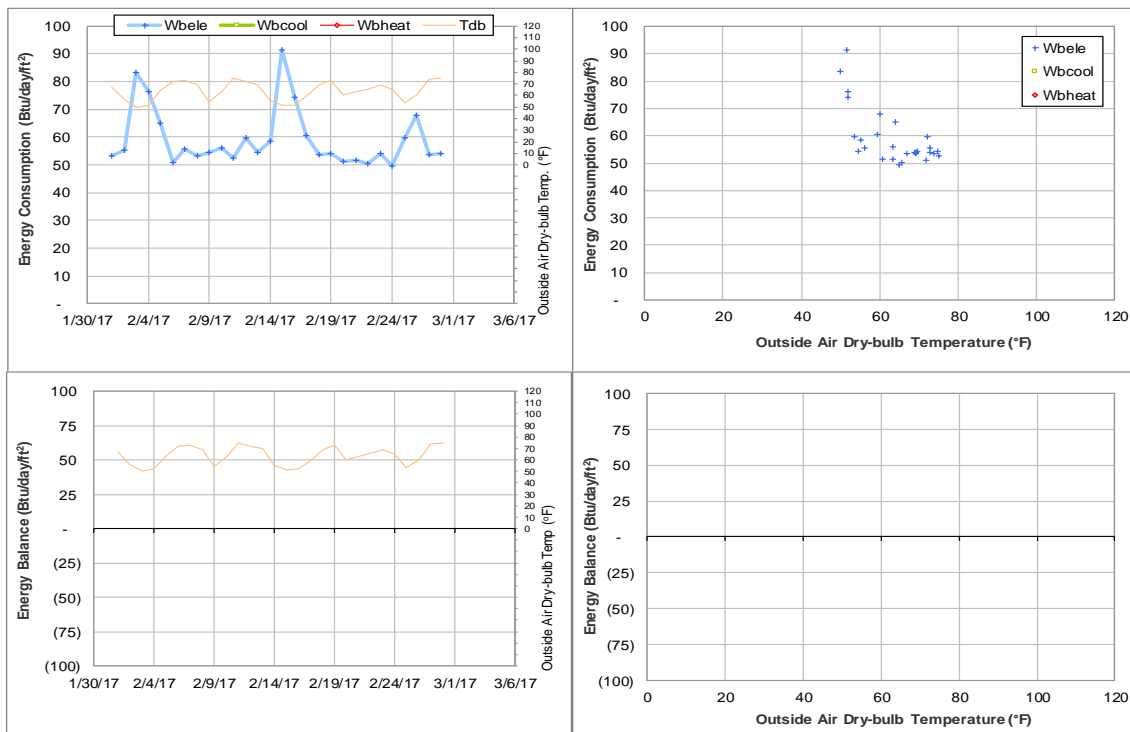


Figure IV-138 University Apartments - The Gardens J TAMU BLDG # 1451 Energy Balance Plot during February 2017

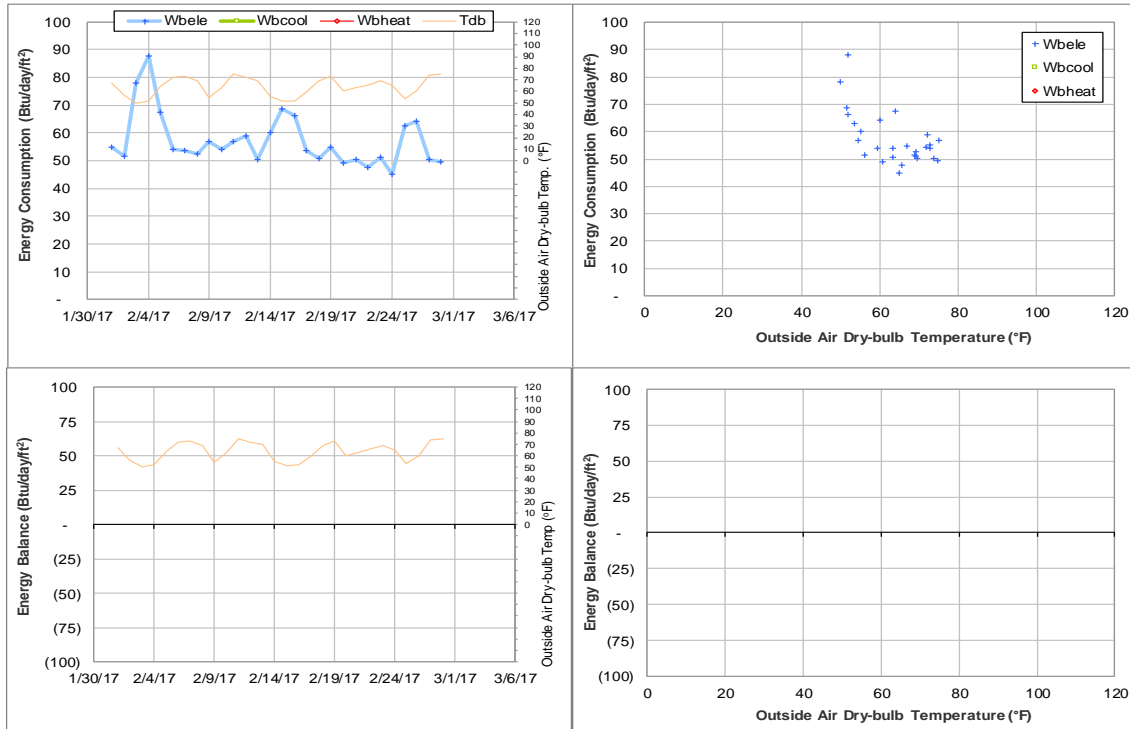


Figure IV-139 University Apartments - The Gardens K TAMU BLDG # 1452 Energy Balance Plot during February 2017

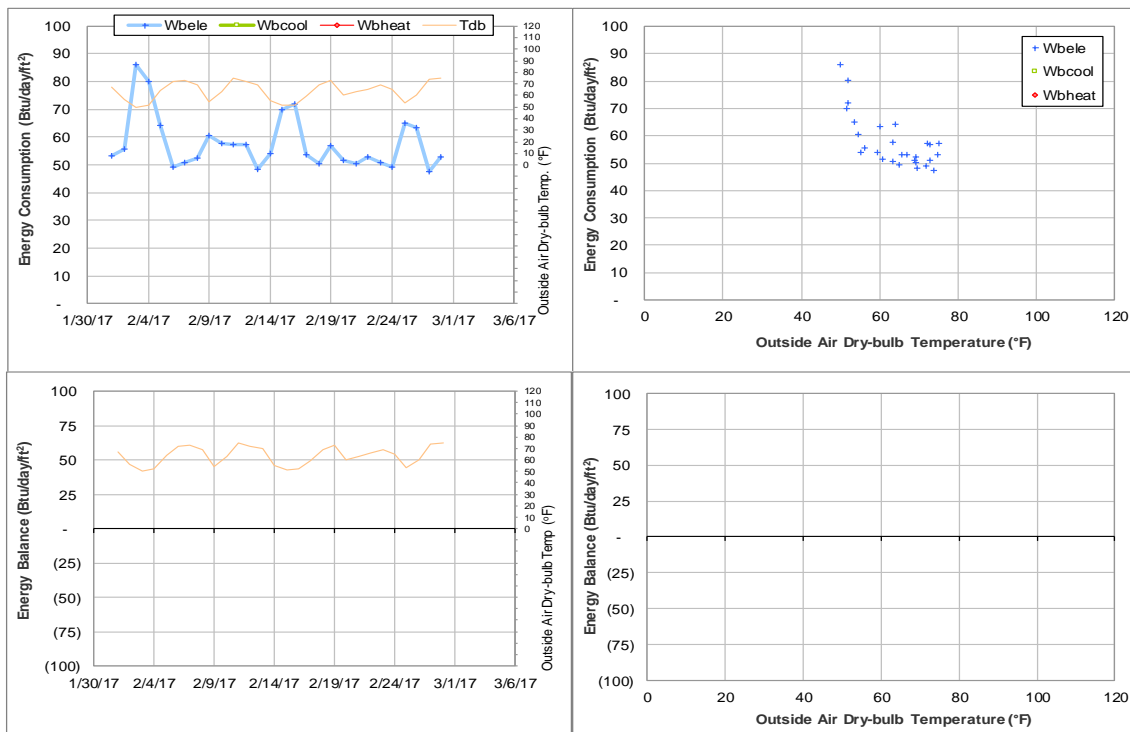


Figure IV-140 University Apartments - The Gardens L TAMU BLDG # 1453 Energy Balance Plot during February 2017

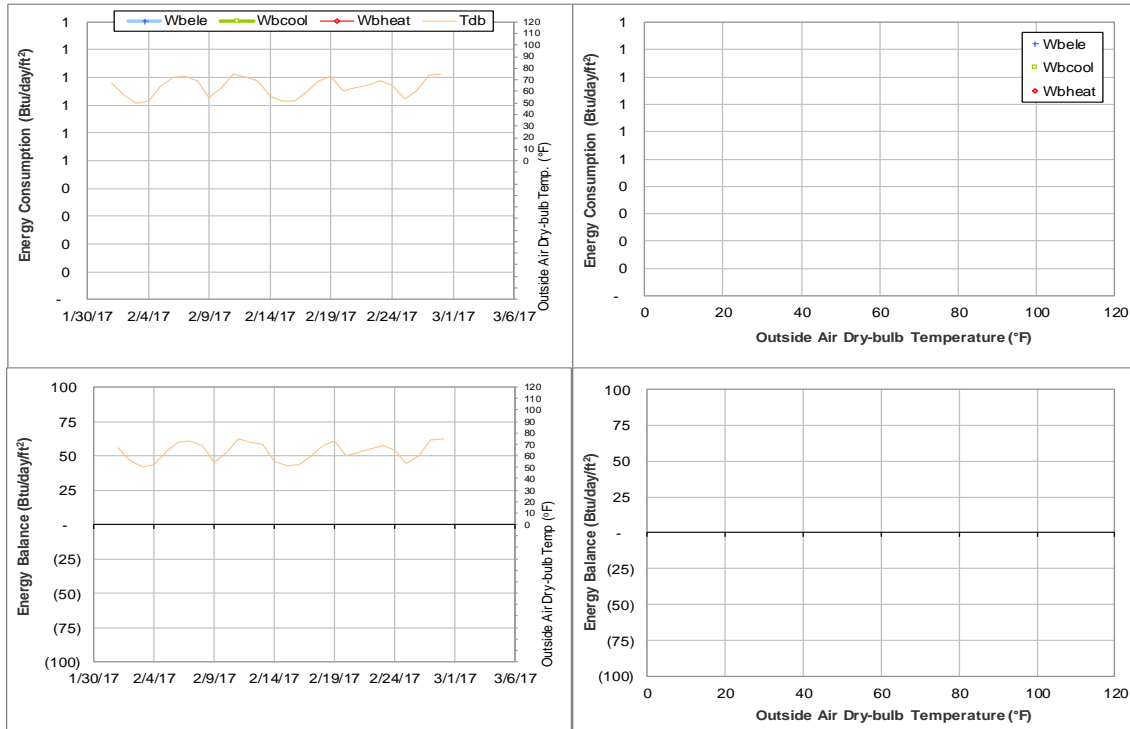


Figure IV-141 University Apartments - The Gardens F TAMU BLDG # 1454 Energy Balance Plot during February 2017

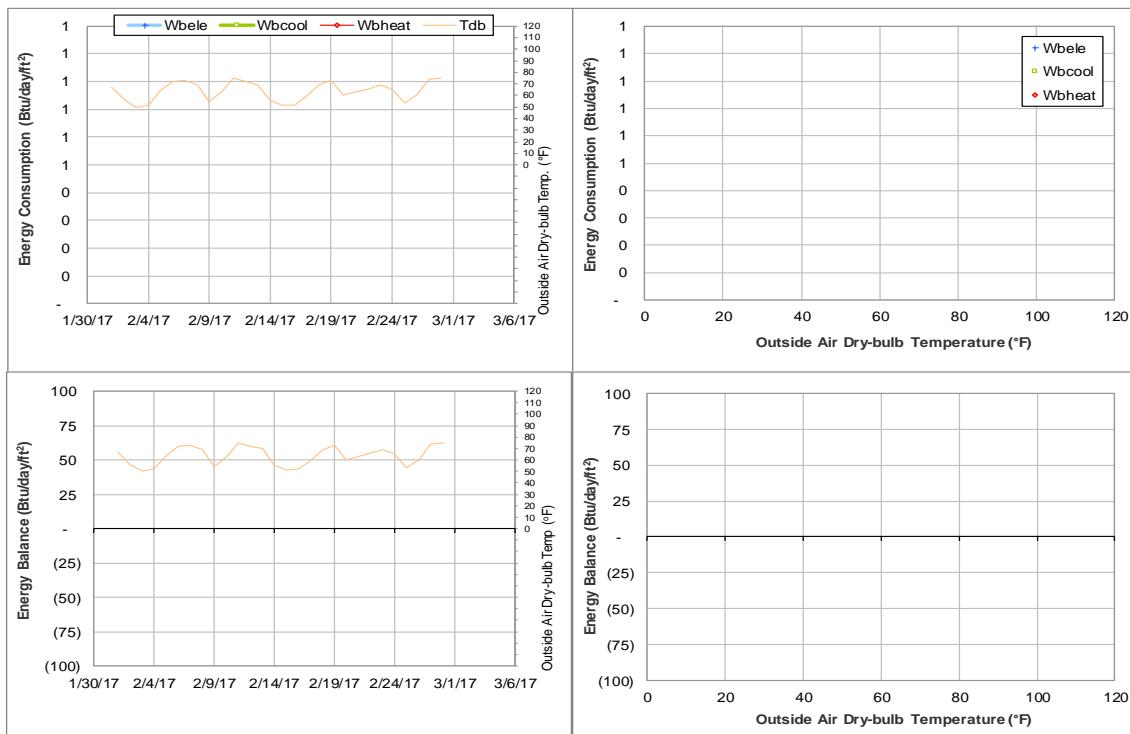


Figure IV-142 University Apartments - The Gardens G TAMU BLDG # 1455 Energy Balance Plot during February 2017

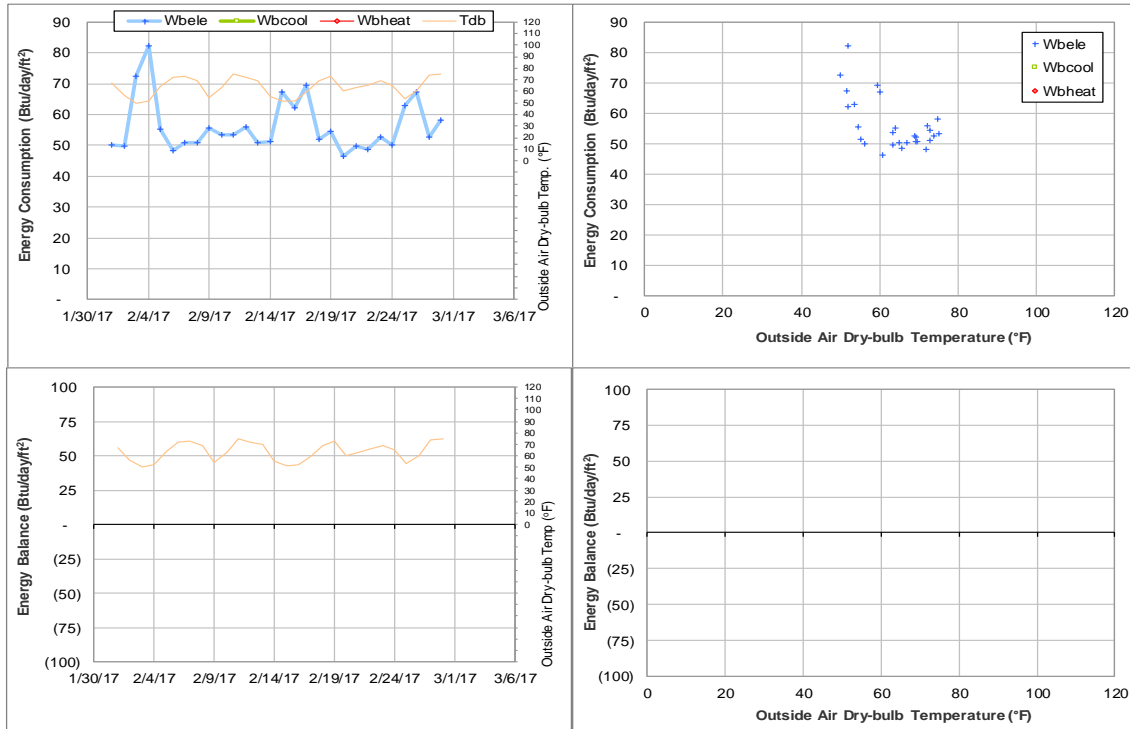


Figure IV-143 University Apartments - The Gardens H TAMU BLDG # 1456 Energy Balance Plot during February 2017

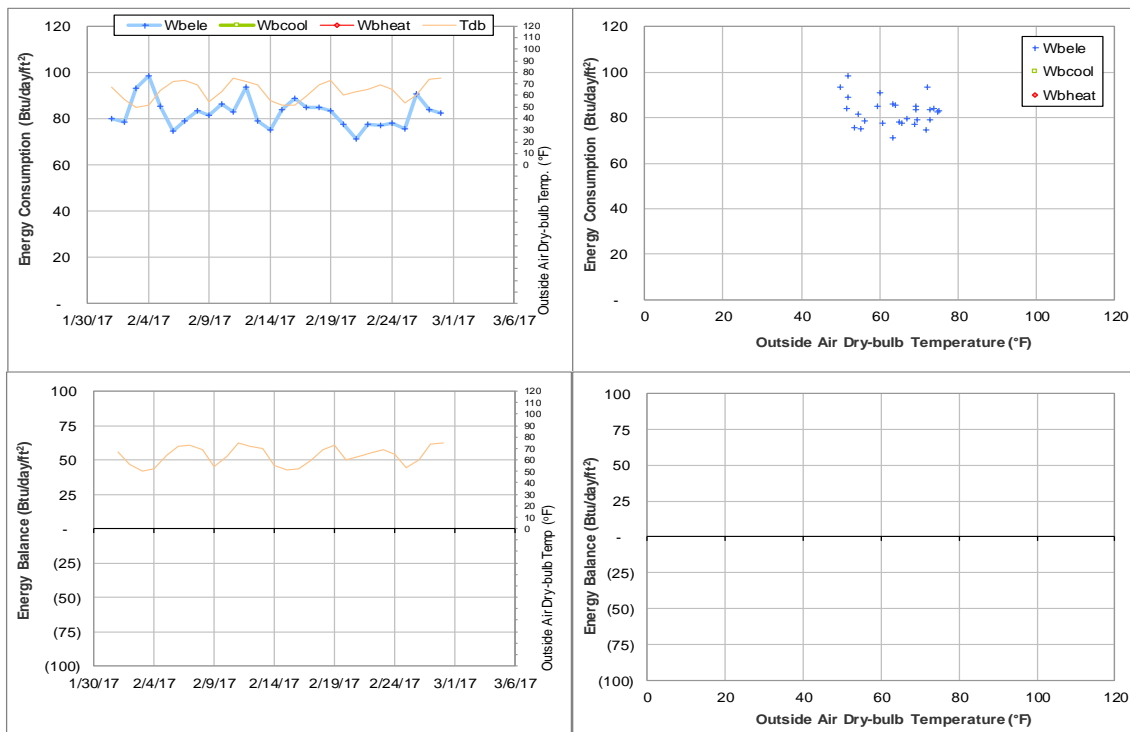


Figure IV-144 University Apartments - The Gardens M TAMU BLDG # 1457 Energy Balance Plot during February 2017

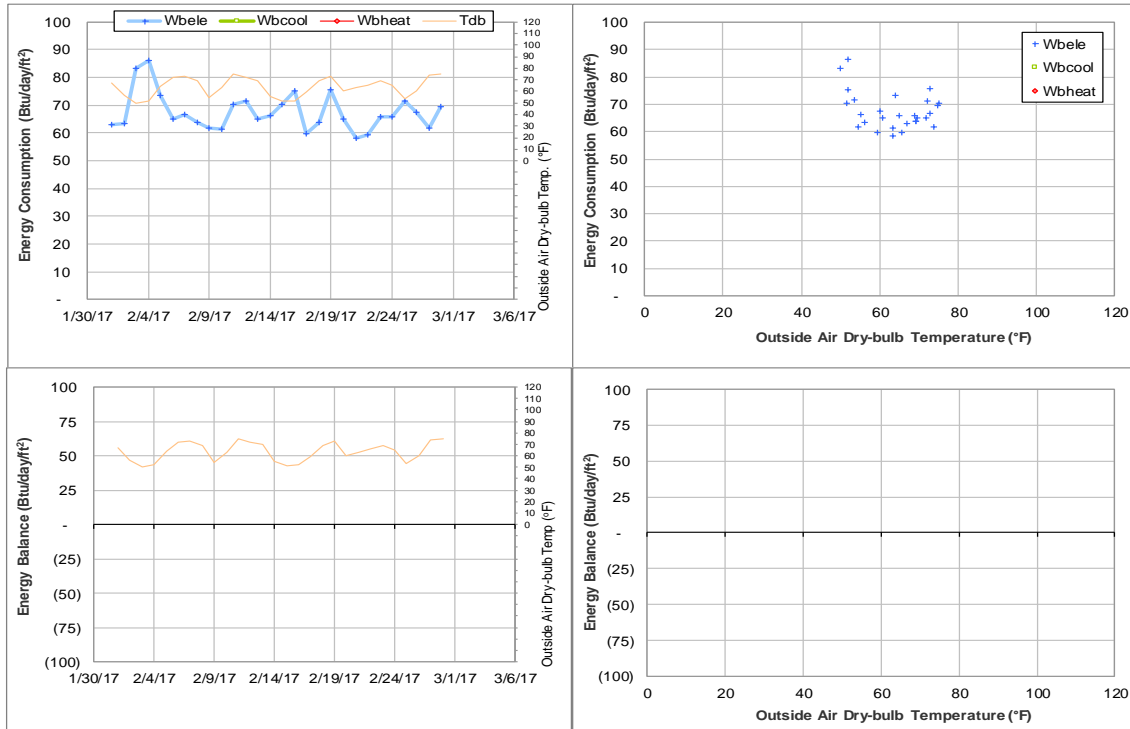


Figure IV-145 University Apartments - The Gardens N TAMU BLDG # 1458 Energy Balance Plot during February 2017

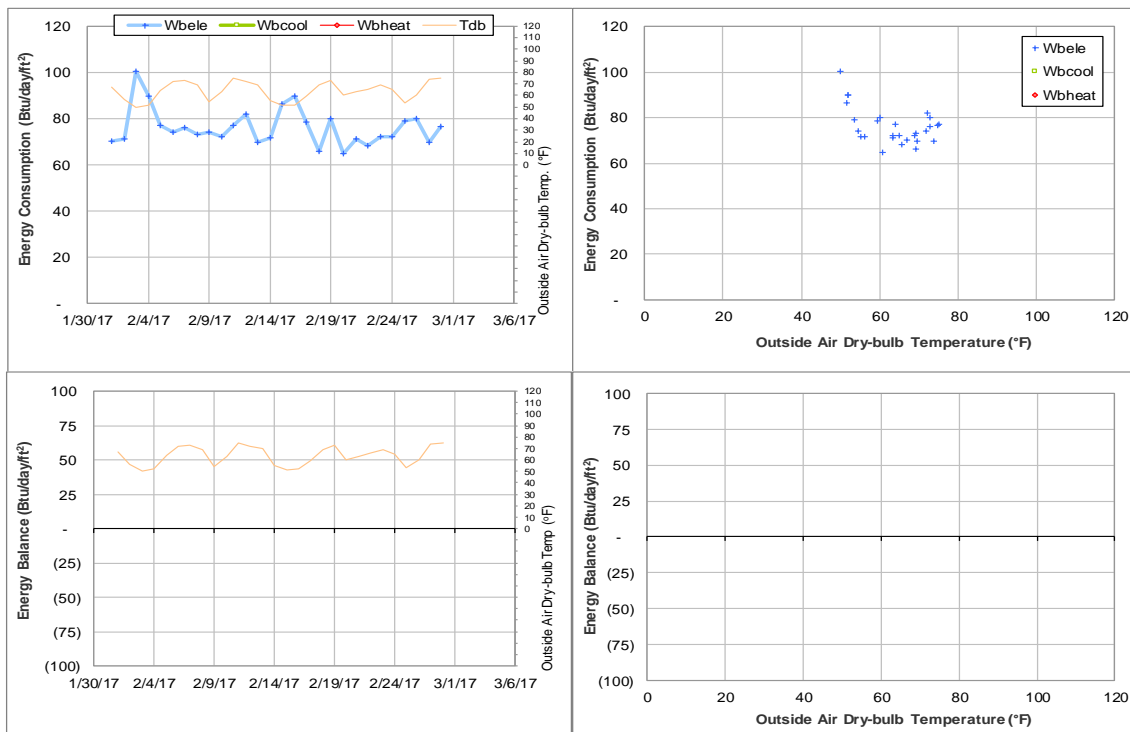


Figure IV-146 University Apartments - The Gardens P TAMU BLDG # 1459 Energy Balance Plot during February 2017

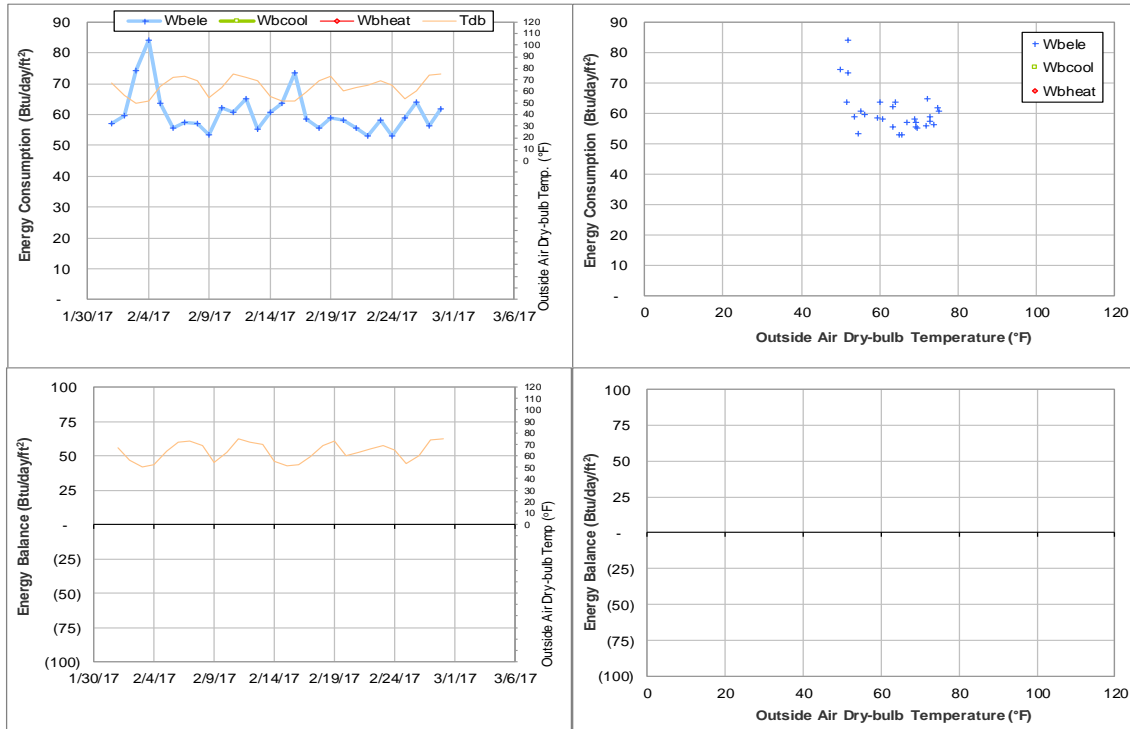


Figure IV-147 University Apartments - The Gardens Q TAMU BLDG # 1460 Energy Balance Plot during February 2017

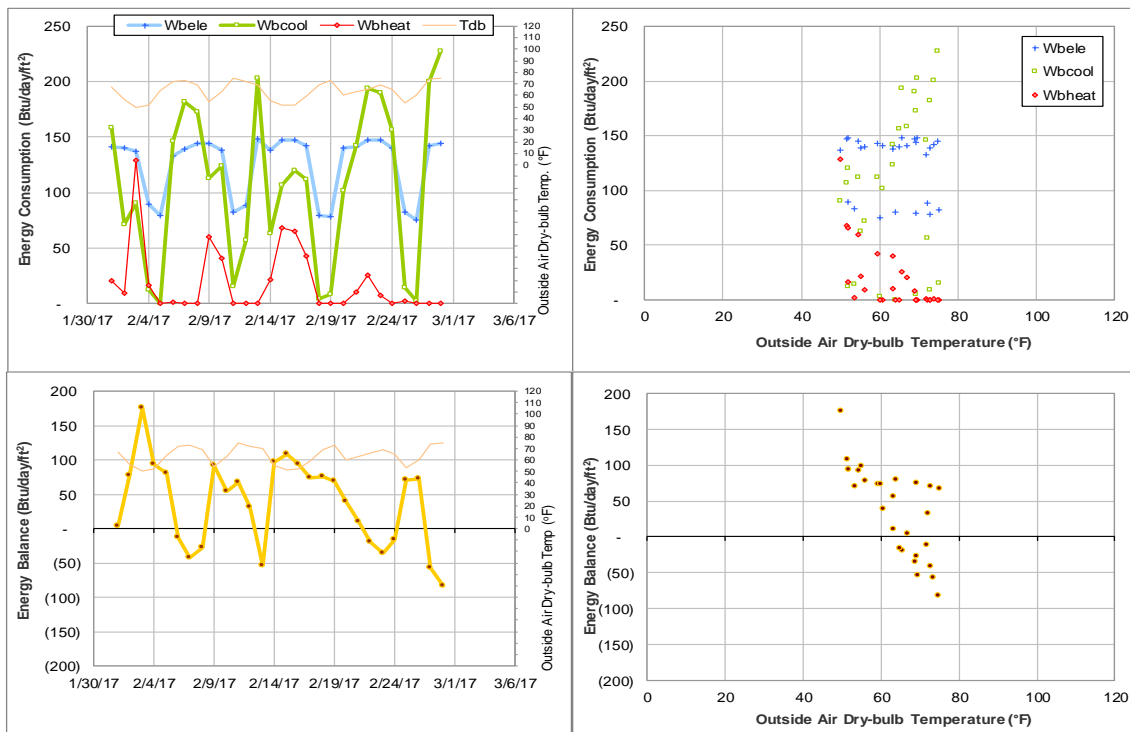


Figure IV-148 Utilities & Energy Services Business Office TAMU BLDG # 1497 Energy Balance Plot during February 2017

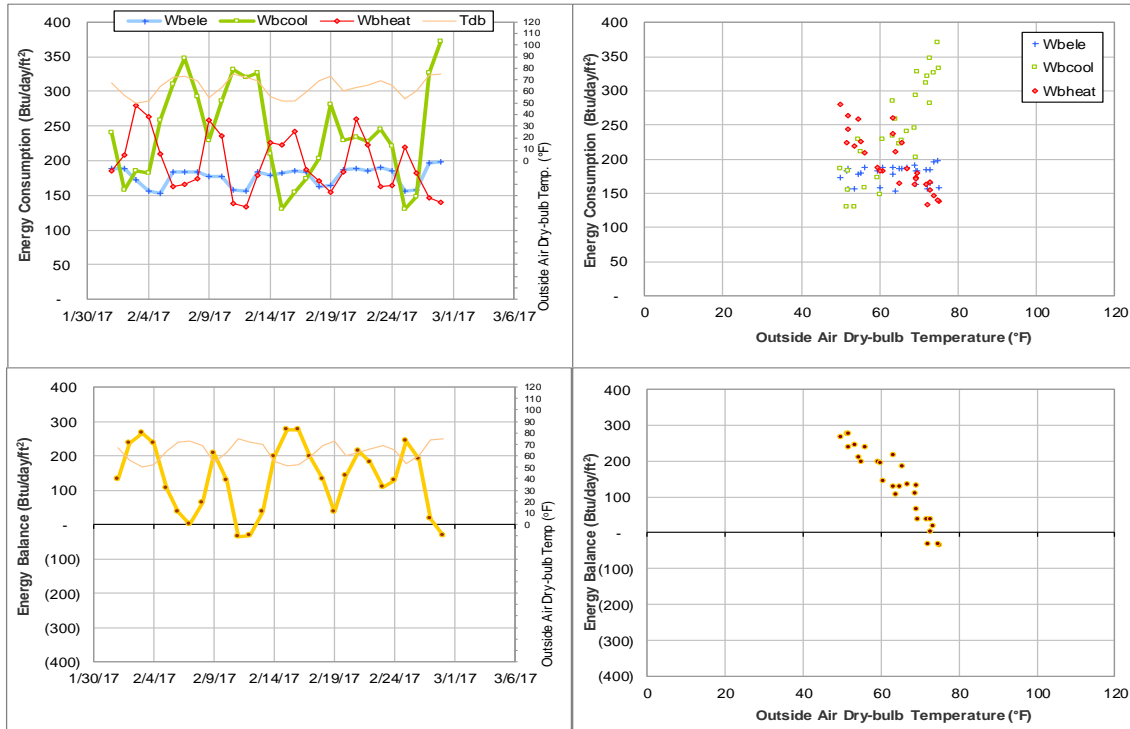


Figure IV-149 Kleberg Center TAMU BLDG # 1501 Energy Balance Plot during February 2017

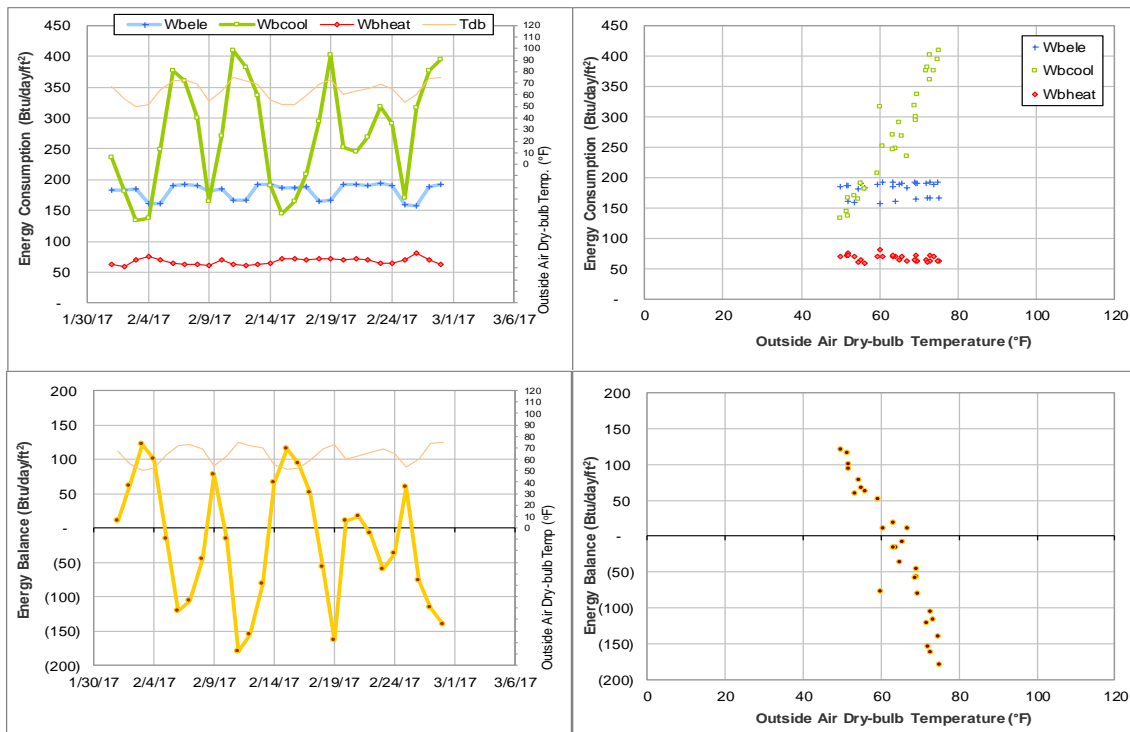


Figure IV-150 Heep Center TAMU BLDG # 1502 Energy Balance Plot during February 2017

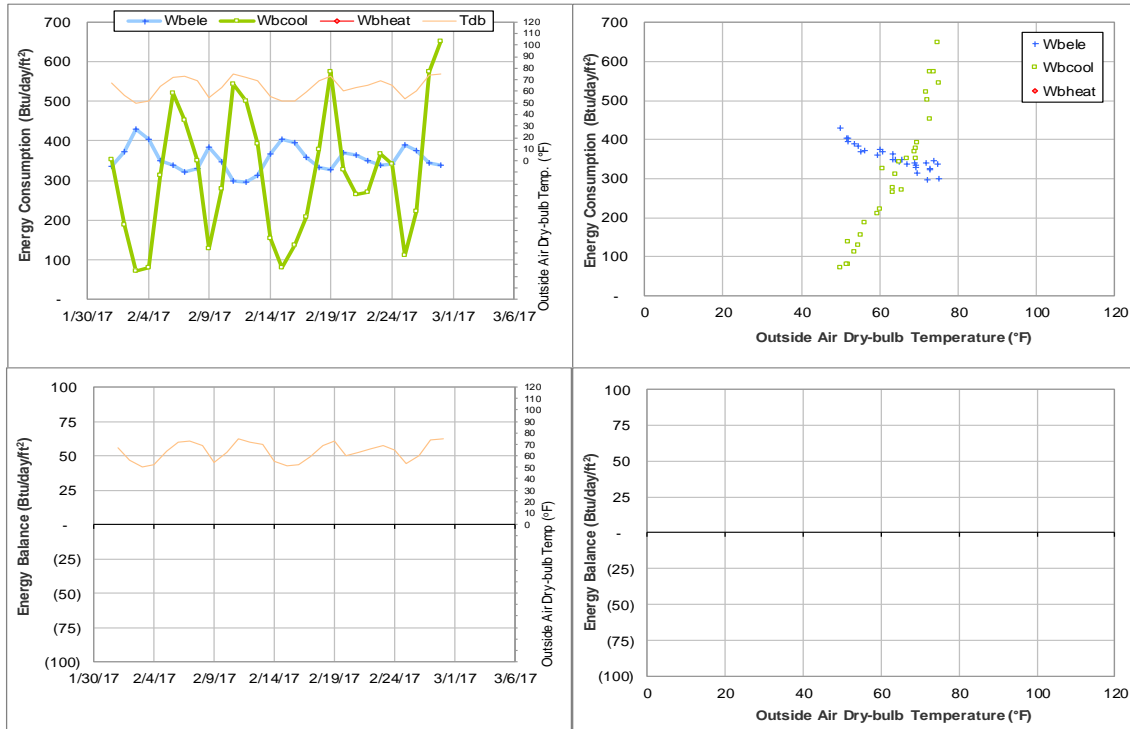


Figure IV-151 Cater-Mattil Hall TAMU BLDG # 1503 Energy Balance Plot during February 2017

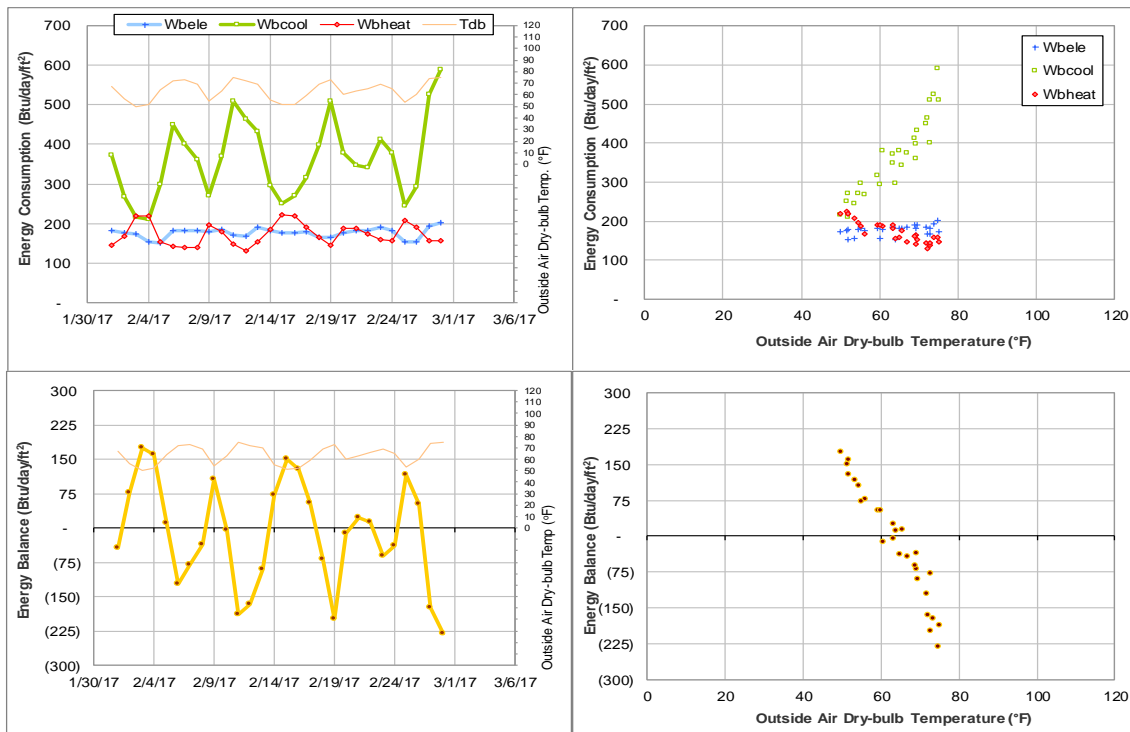


Figure IV-152 Reynolds Medical Sciences Building TAMU BLDG # 1504 Energy Balance Plot during February 2017

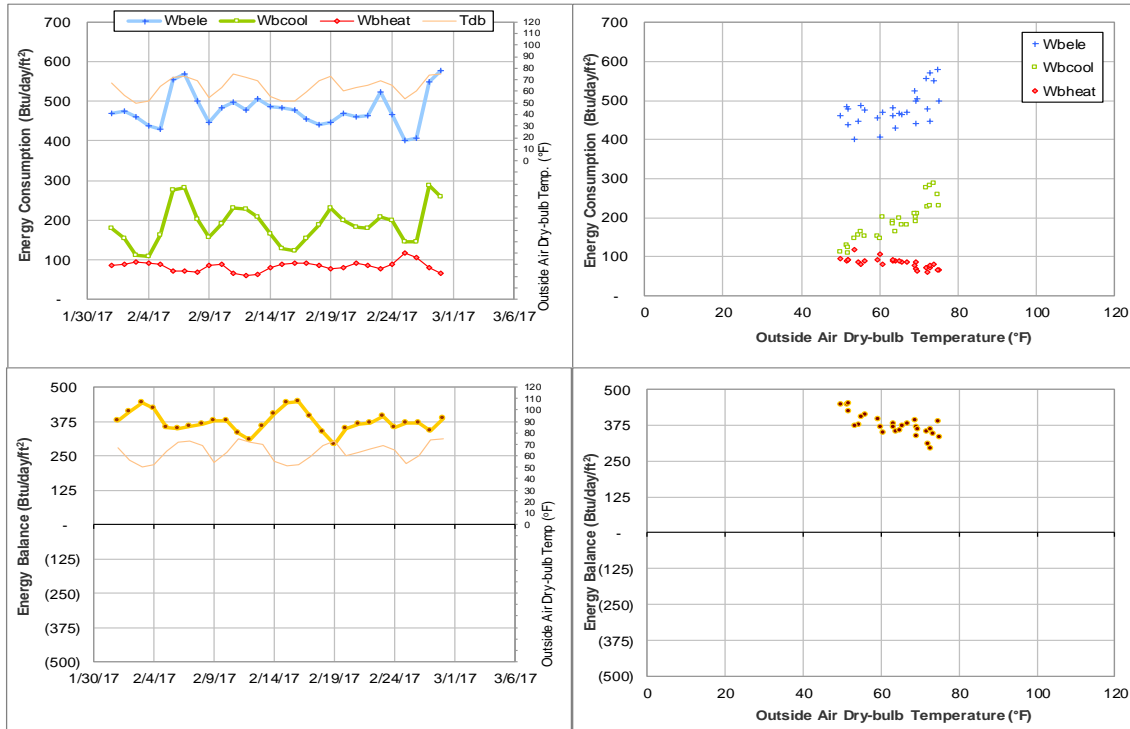


Figure IV-153 Rosenthal Meat Science & Technology Center TAMU BLDG # 1505 Energy Balance Plot during February 2017

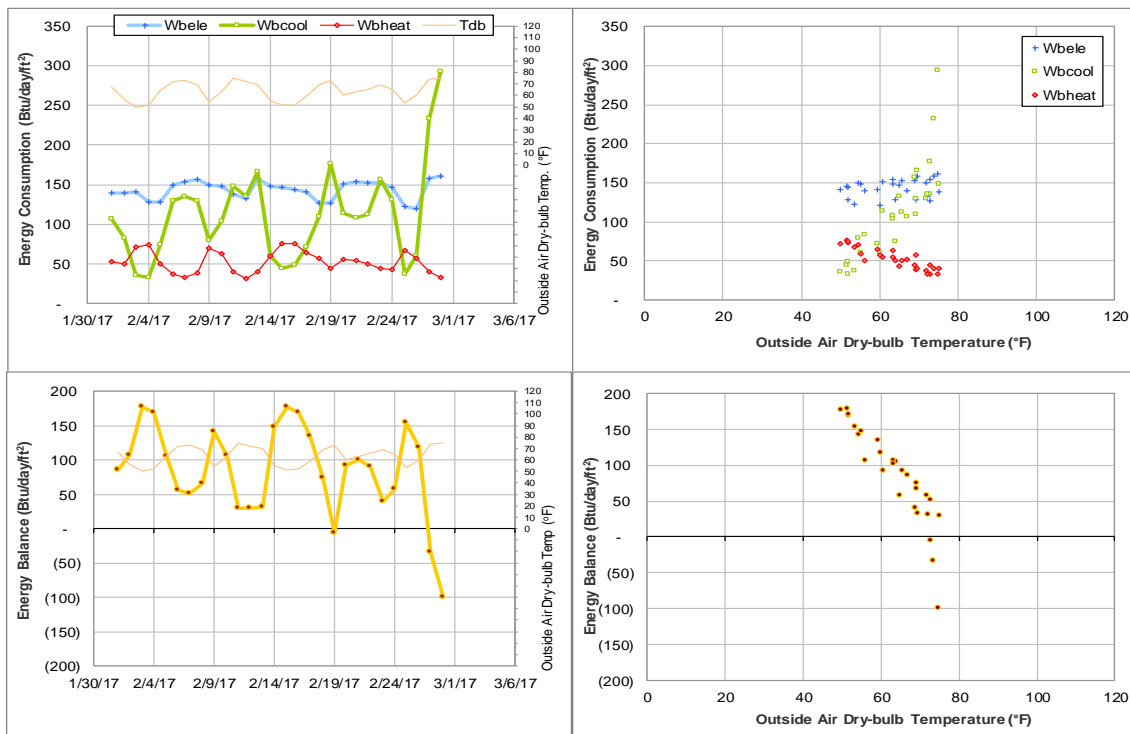


Figure IV-154 Horticulture-Forest Science Building TAMU BLDG # 1506 Energy Balance Plot during February 2017

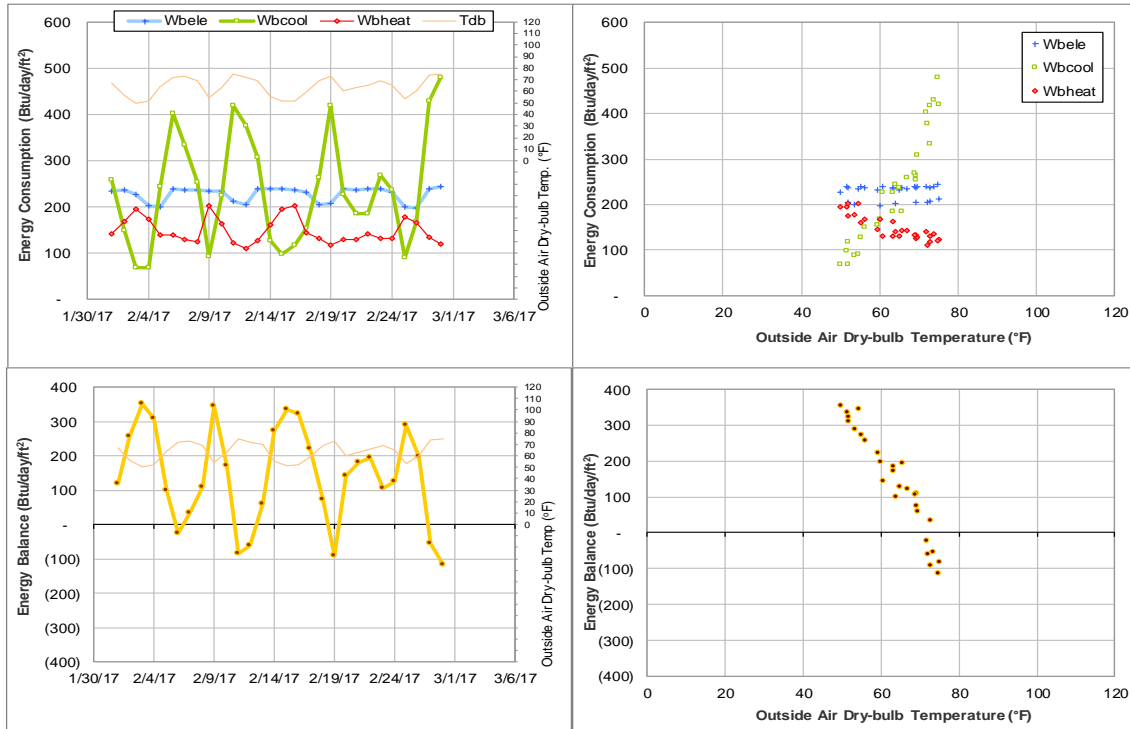


Figure IV-155 Biochemistry-Biophysics Building TAMU BLDG # 1507 Energy Balance Plot during February 2017

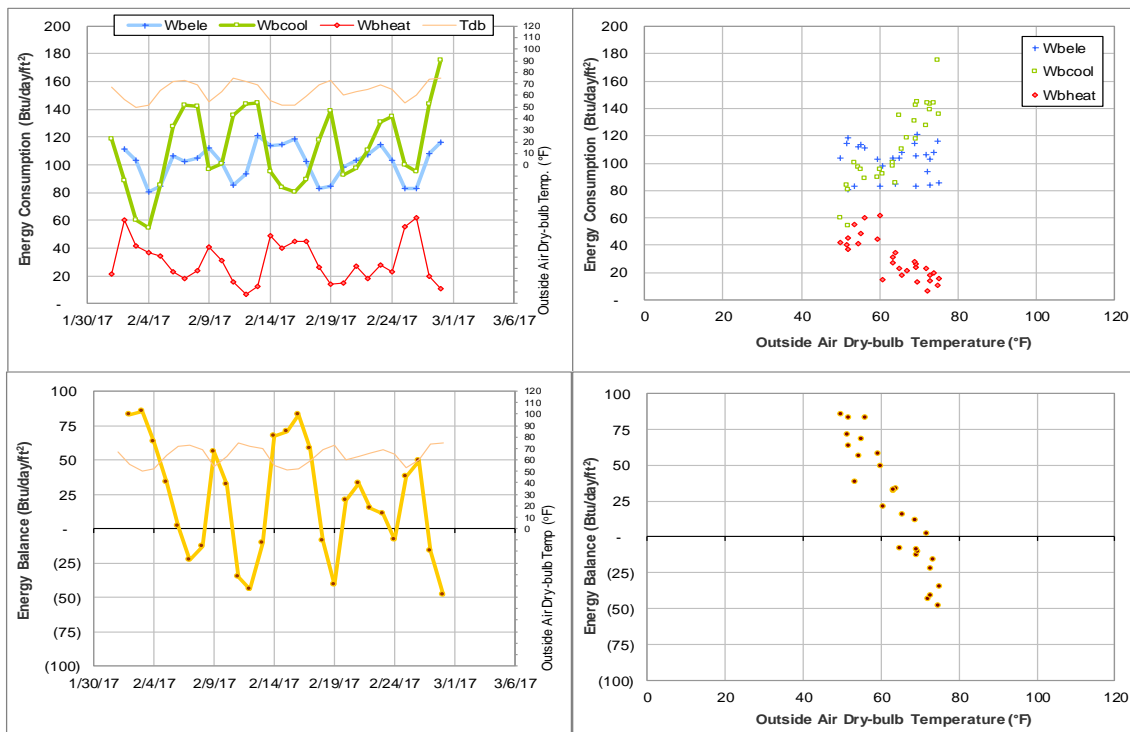


Figure IV-156 Price Hobgood Ag. Engineering Research Lab TAMU BLDG # 1508 Energy Balance Plot during February 2017

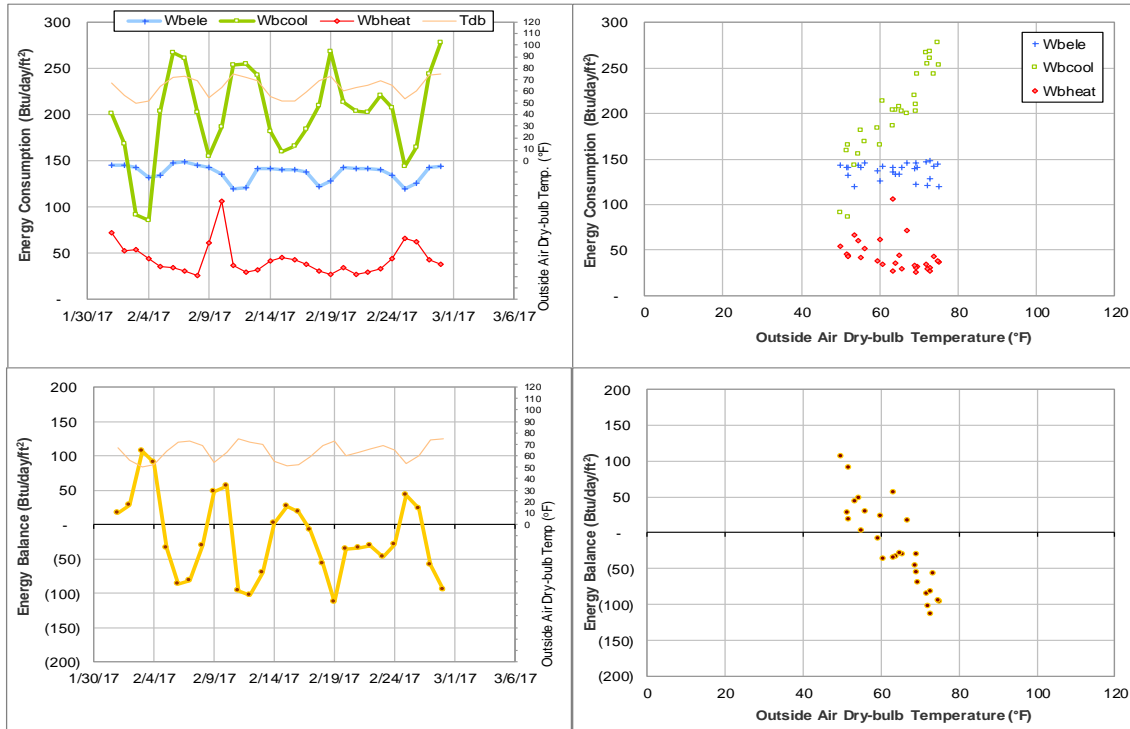


Figure IV-157 Medical Sciences Library TAMU BLDG # 1509 Energy Balance Plot during February 2017

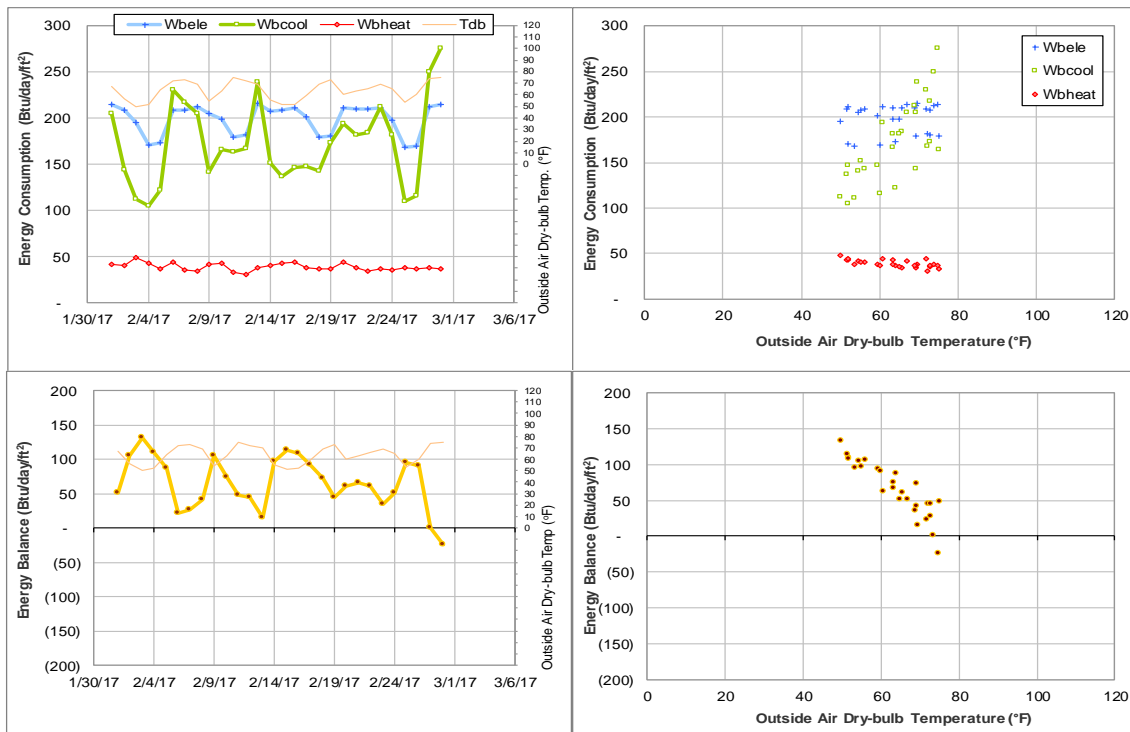


Figure IV-158 Wehner Building TAMU BLDG # 1510 Energy Balance Plot during February 2017

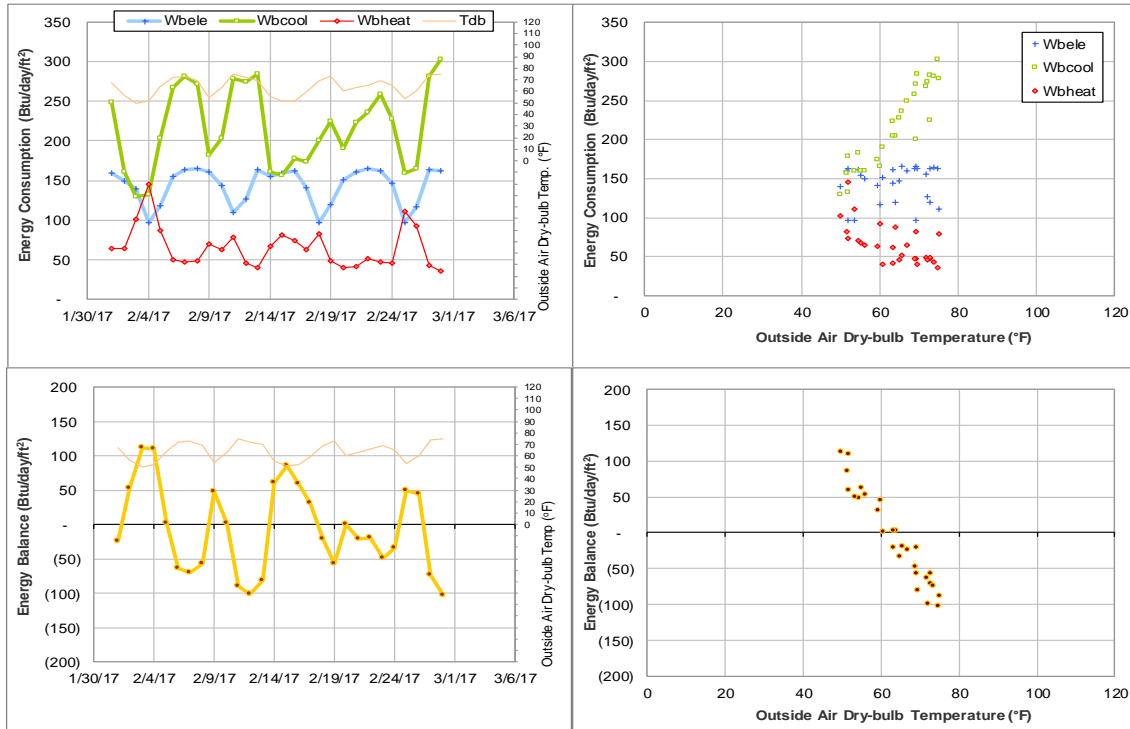


Figure IV-159 West Campus Library Facility TAMU BLDG # 1511 Energy Balance Plot during February 2017

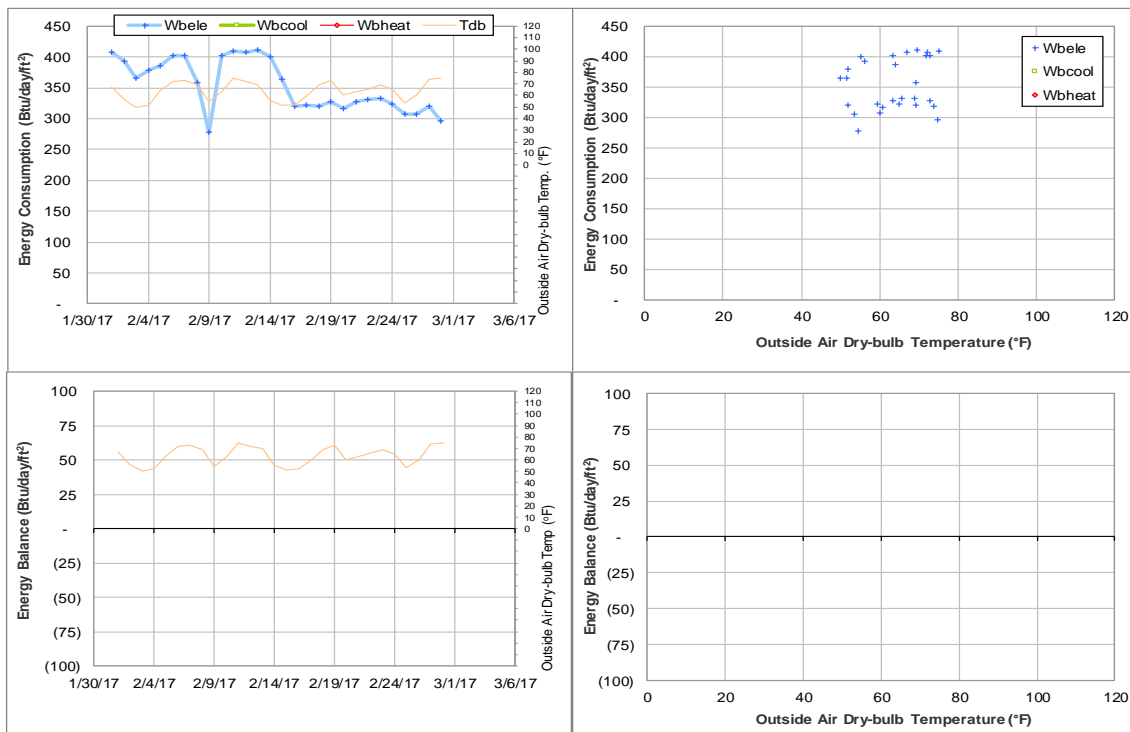


Figure IV-160 Southern Crop Improvement Greenhouse TAMU BLDG # 1512 Energy Balance Plot during February 2017

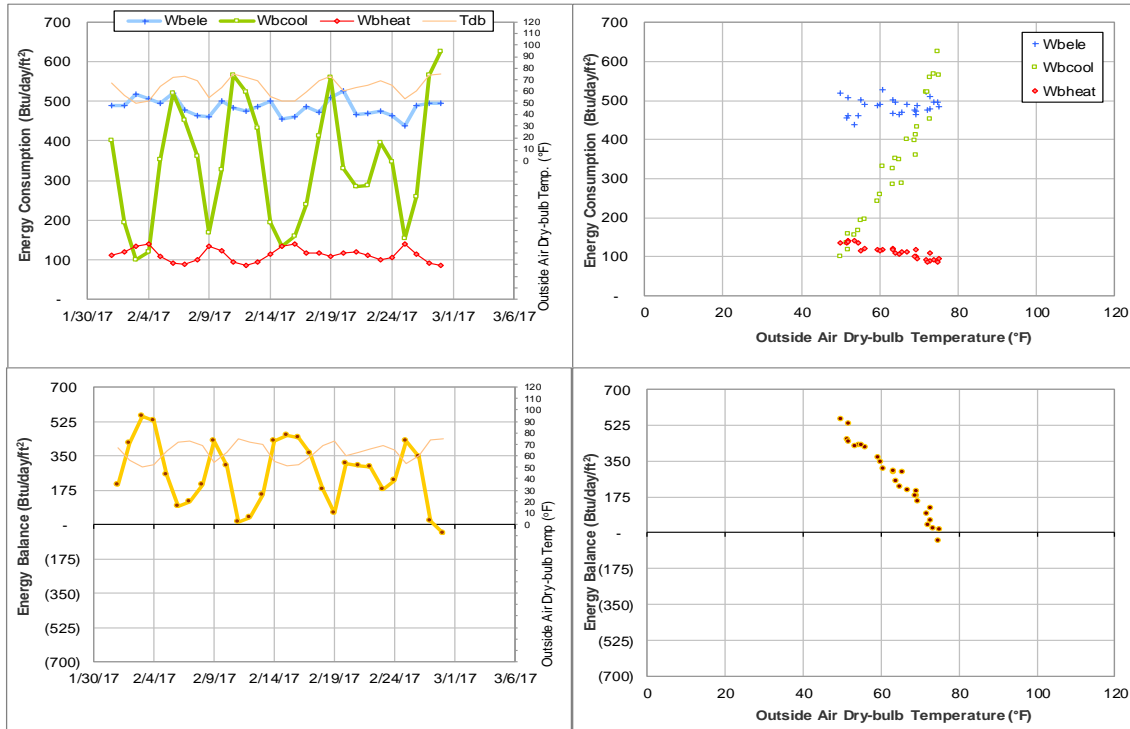


Figure IV-161 Borlaug Center for Southern Crop Improvement TAMU BLDG # 1513 Energy Balance Plot during February 2017

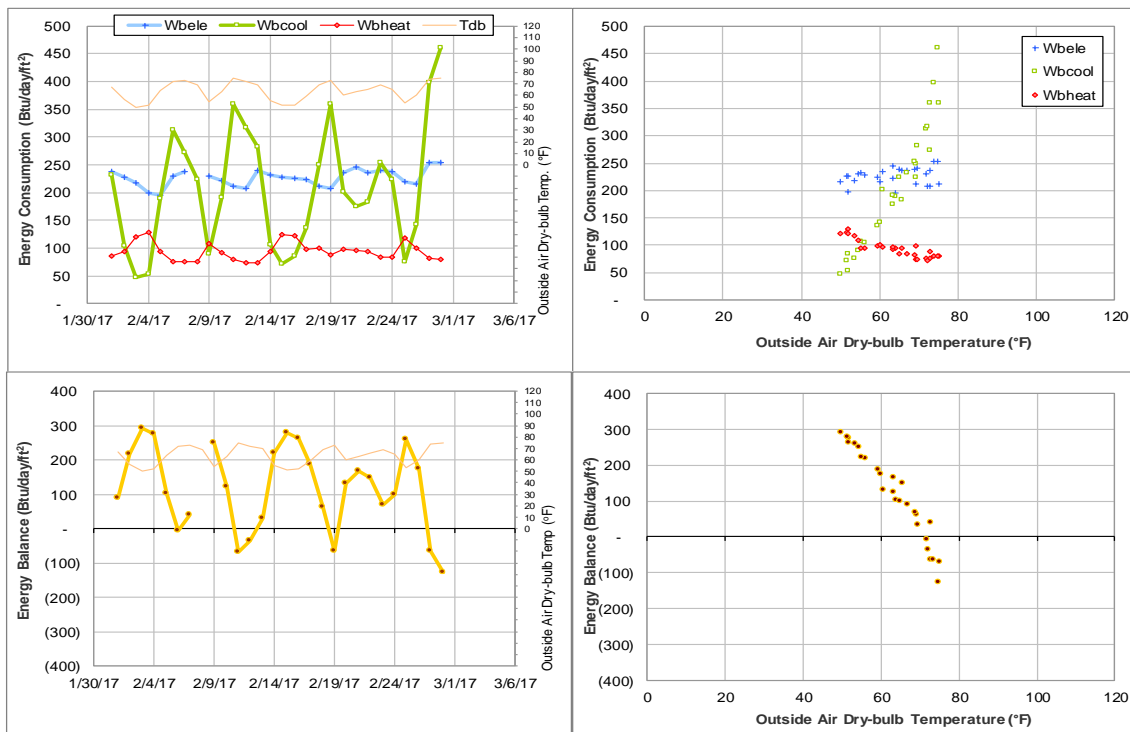


Figure IV-162 TX School of Rural Public Health TAMU BLDG # 1518 Energy Balance Plot during February 2017

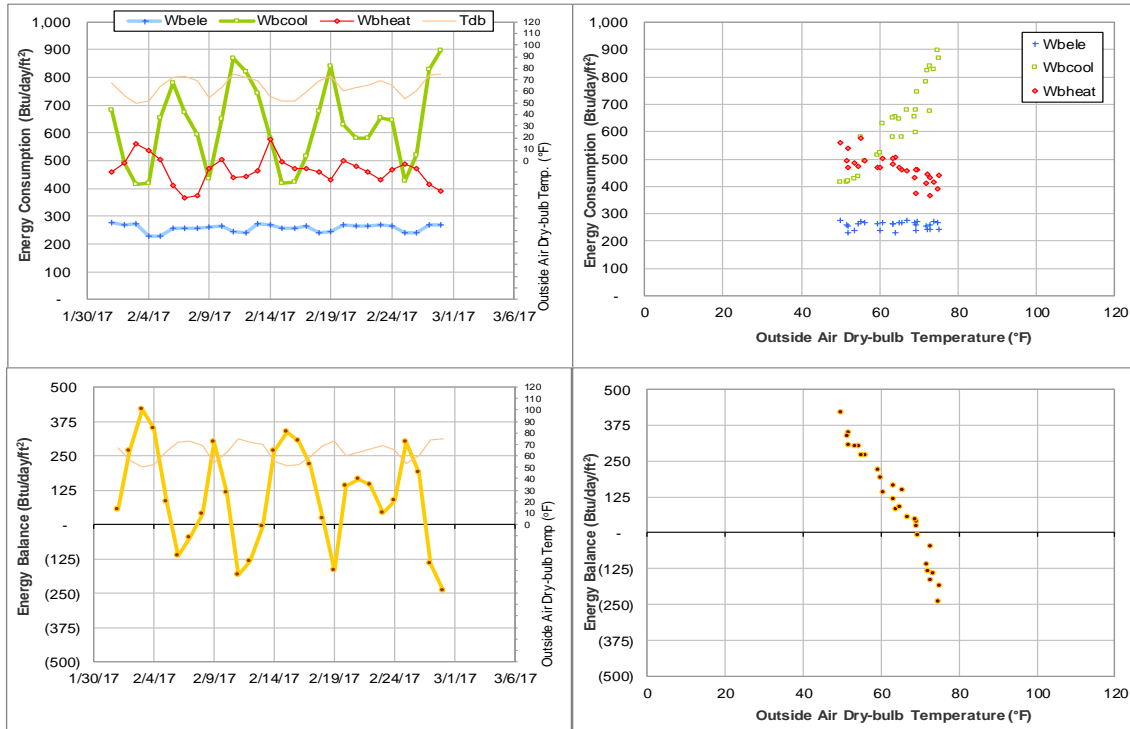


Figure IV-163 Nuclear Magnetic Resonance Facility TAMU BLDG # 1525 Energy Balance Plot during February 2017

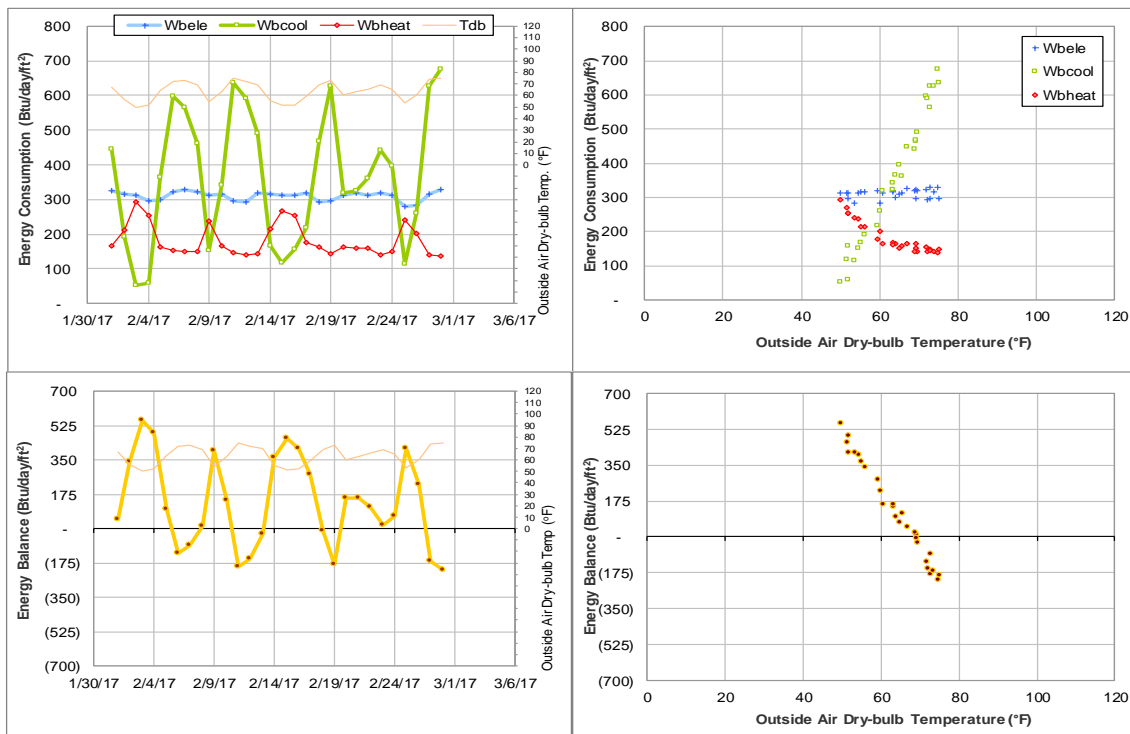


Figure IV-164 Interdisciplinary Life Sciences Building TAMU BLDG # 1530 Energy Balance Plot during February 2017

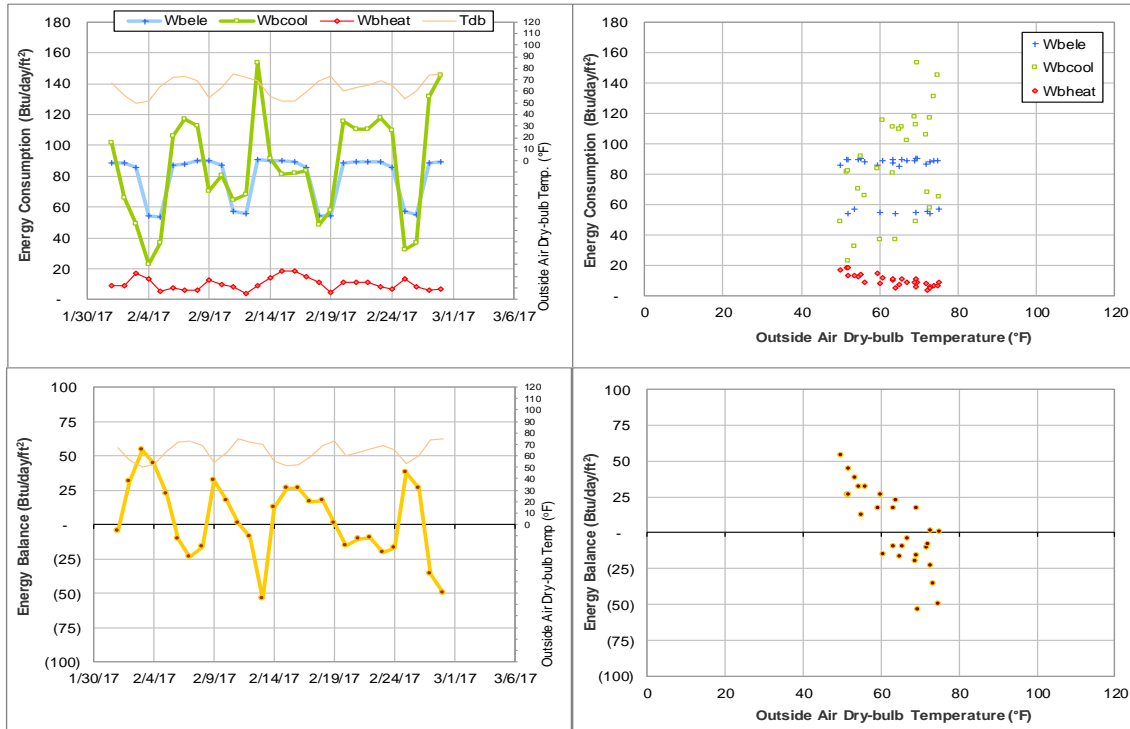


Figure IV-165 Agriculture and Life Sciences Building TAMU BLDG # 1535 Energy Balance Plot during February 2017

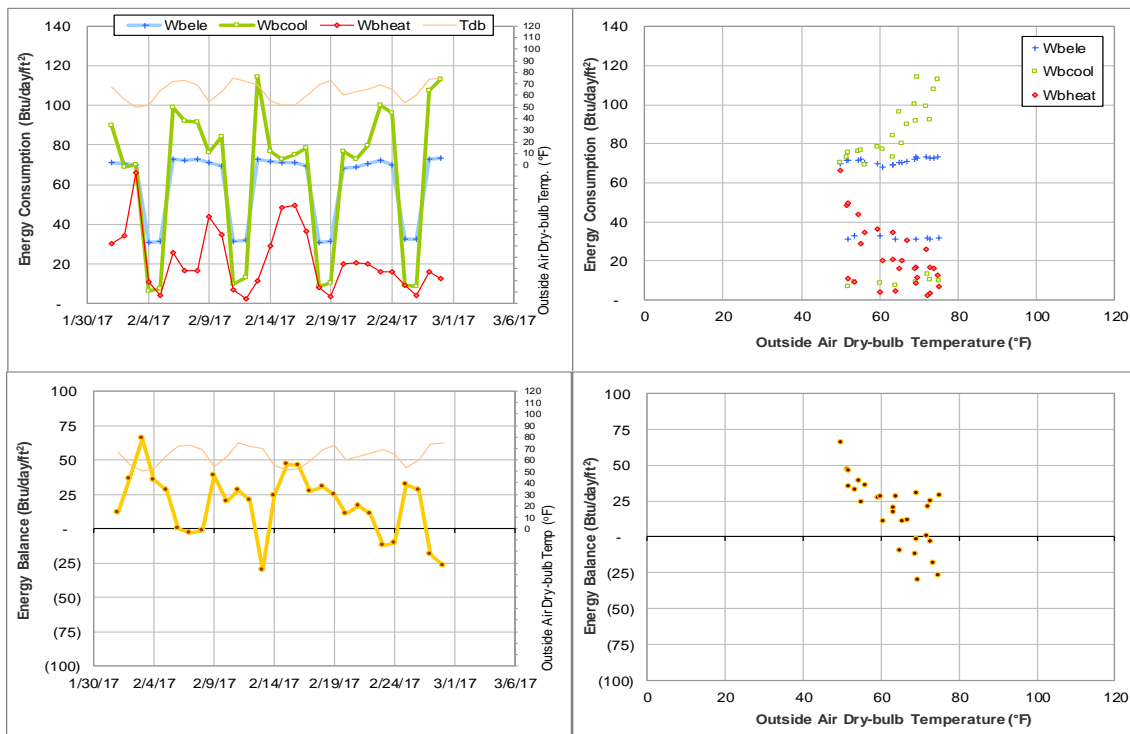


Figure IV-166 AgriLife Services Building TAMU BLDG # 1536 Energy Balance Plot during February 2017

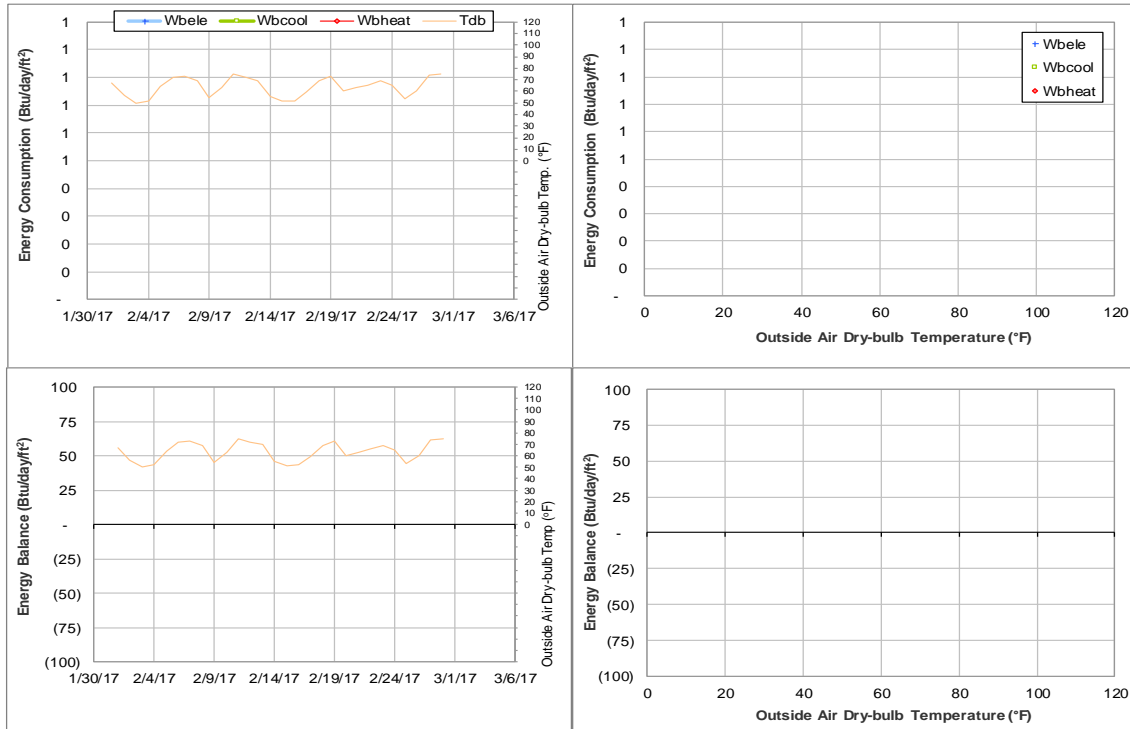


Figure IV-167 Agriculture Public Building TAMU BLDG # 1537 Energy Balance Plot during February 2017

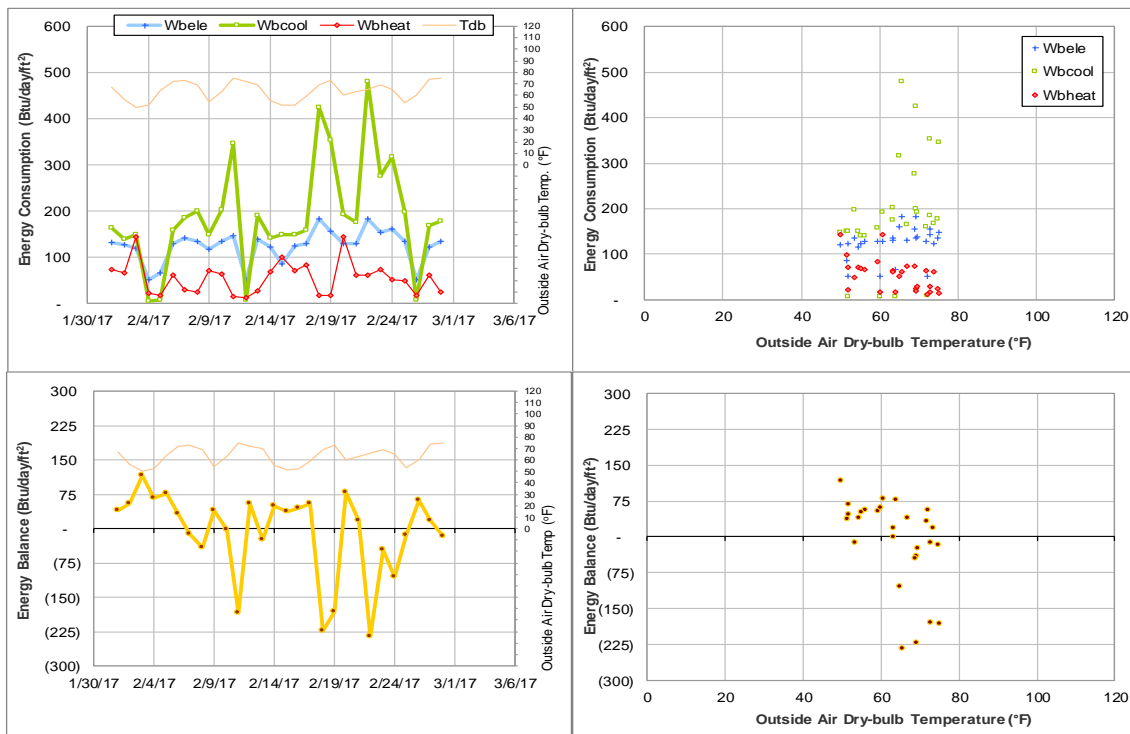


Figure IV-168 Agriculture Program Visitors Center TAMU BLDG # 1538 Energy Balance Plot during February 2017

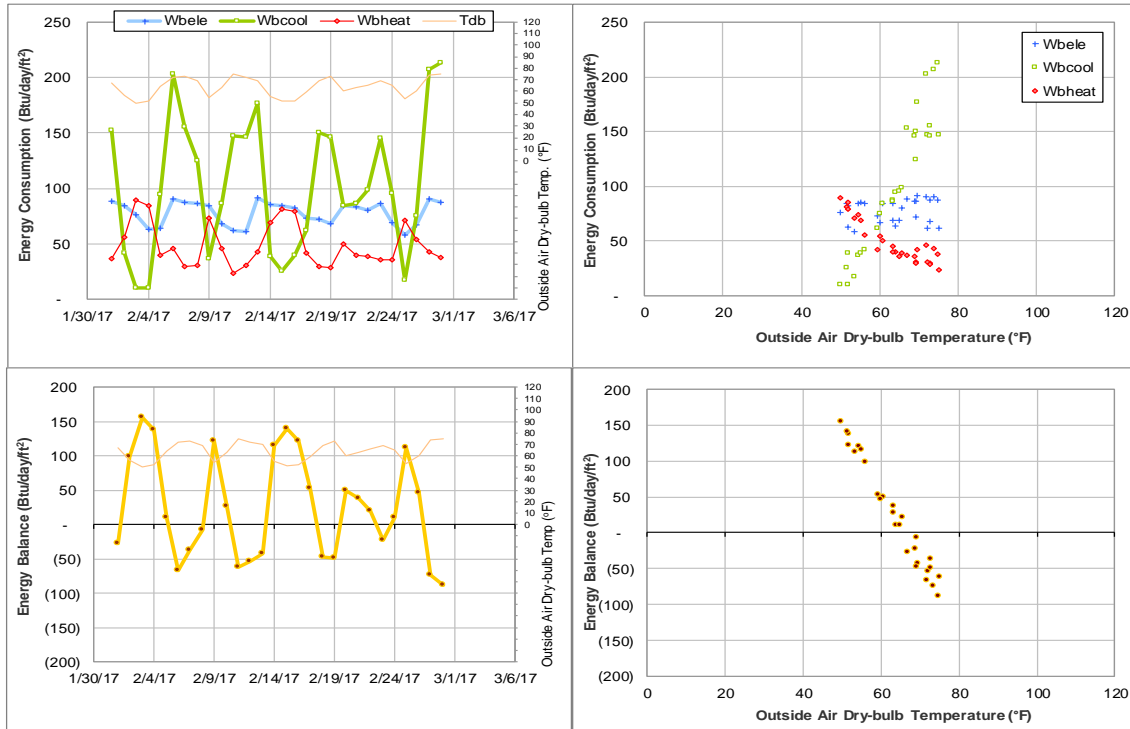


Figure IV-169 Physical Education Activity Program Building TAMU BLDG # 1540 Energy Balance Plot during February 2017

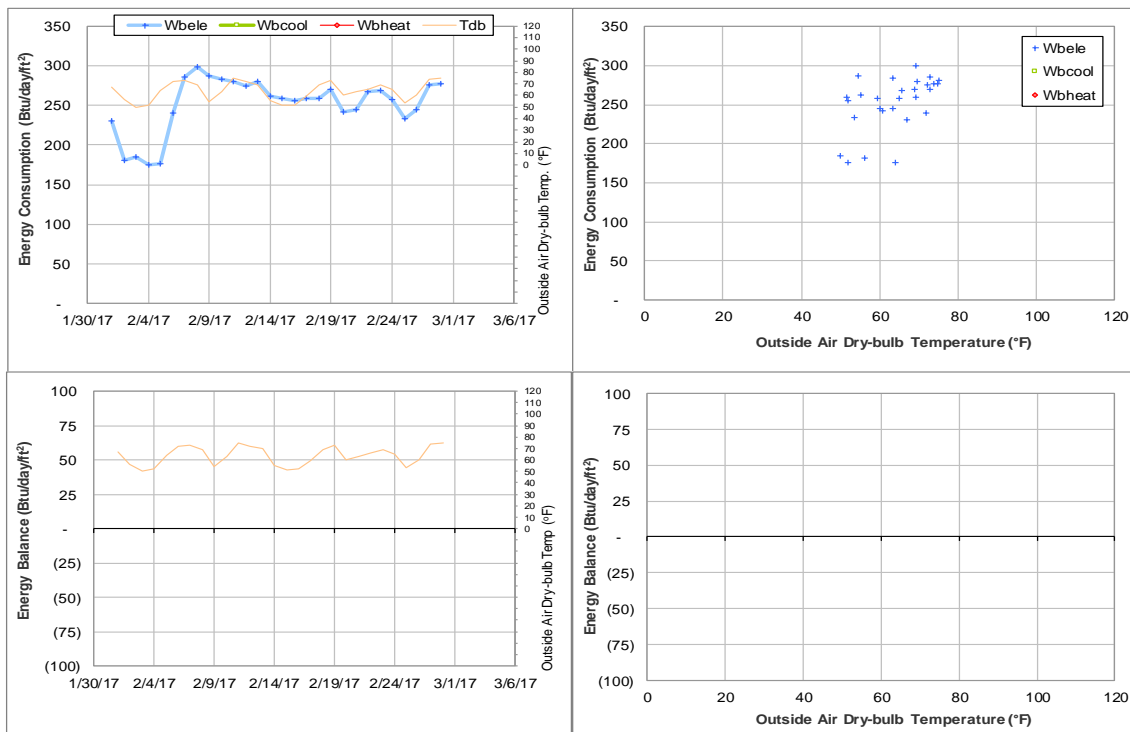


Figure IV-170 Human Clinical Research Building TAMU BLDG # 1542 Energy Balance Plot during February 2017

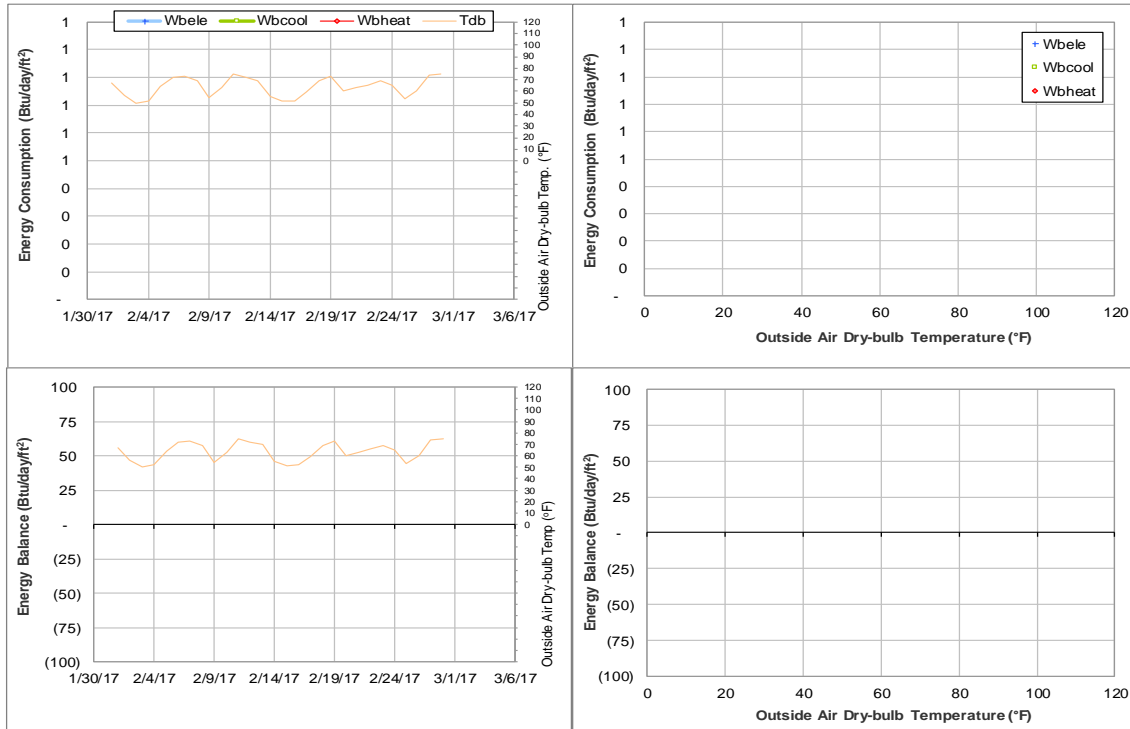


Figure IV-171 Cain Garage TAMU BLDG # 1544 Energy Balance Plot during February 2017

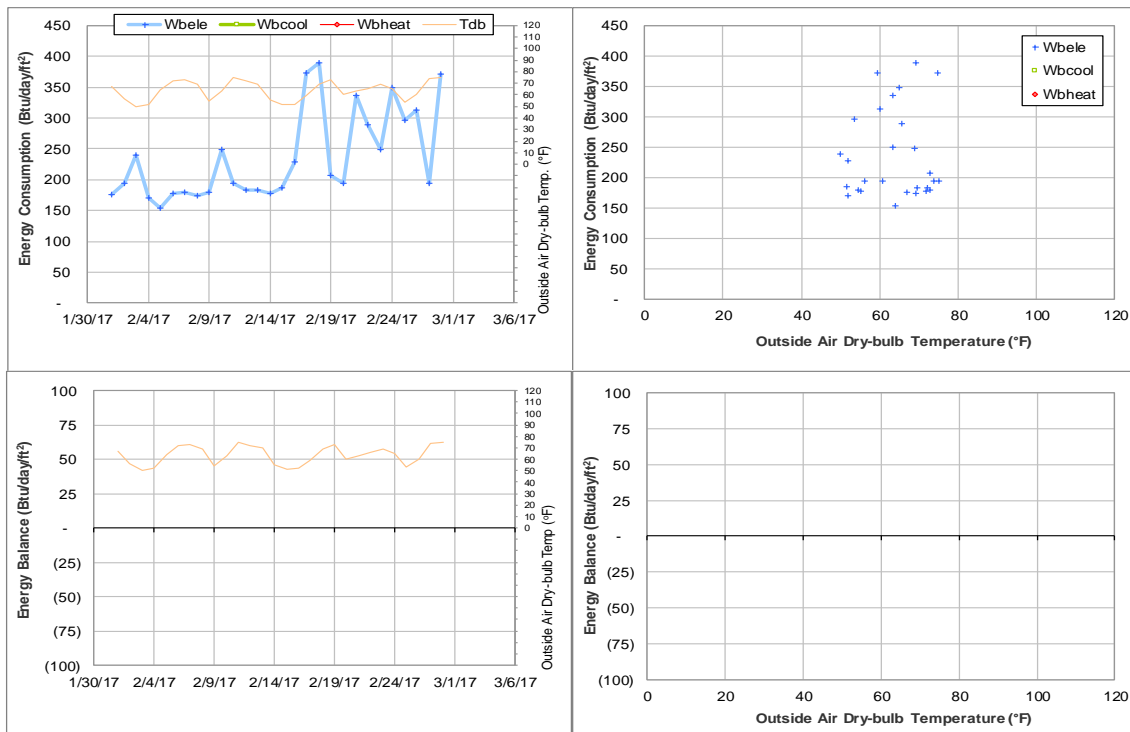


Figure IV-172 Olsen Field at Bluebell Park TAMU BLDG # 1550 Energy Balance Plot during February 2017

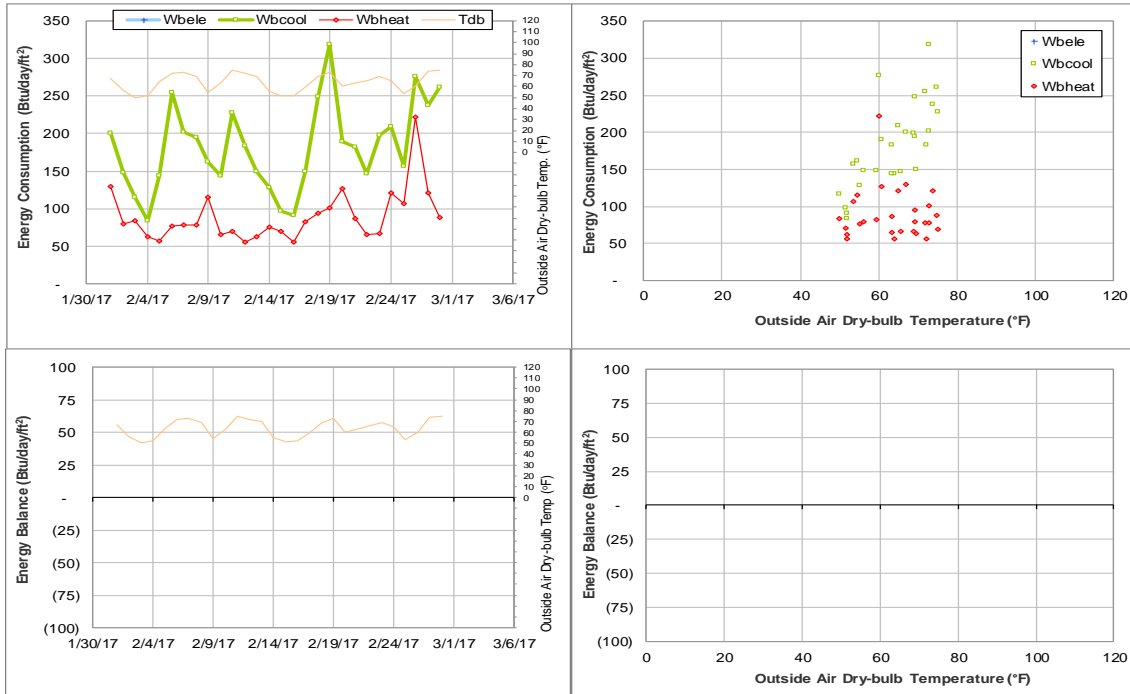


Figure IV-173 Reed Arena and Cox-McFerrin Center TAMU BLDG # 1554 and 1558 Energy Balance Plot during February 2017

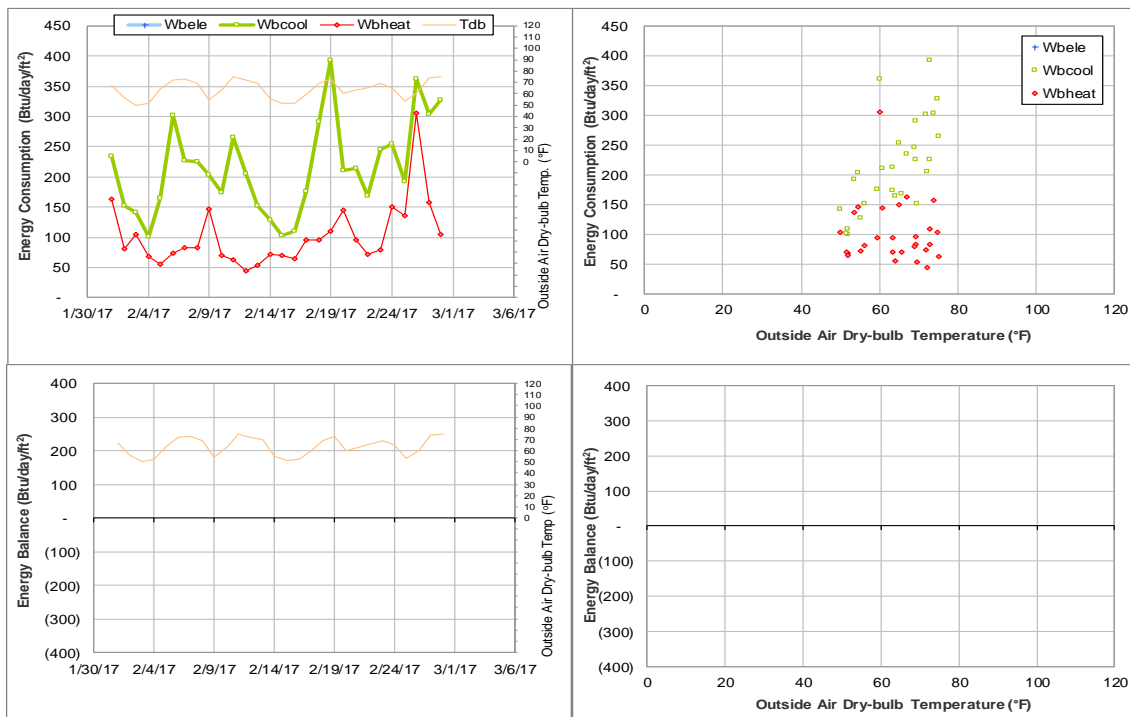


Figure IV-174 Reed Arena TAMU BLDG # 1554 Energy Balance Plot during February 2017

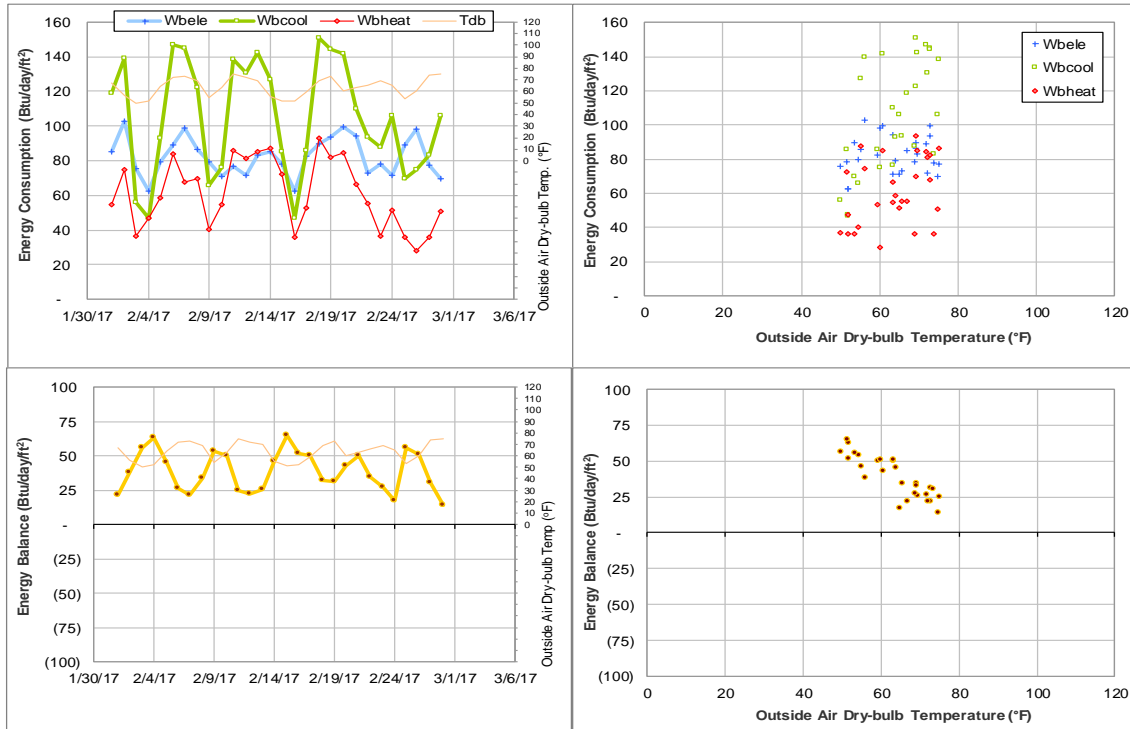


Figure IV-175 Cox-McFerrin Center for Aggie Basketball TAMU BLDG # 1558 Energy Balance Plot during February 2017

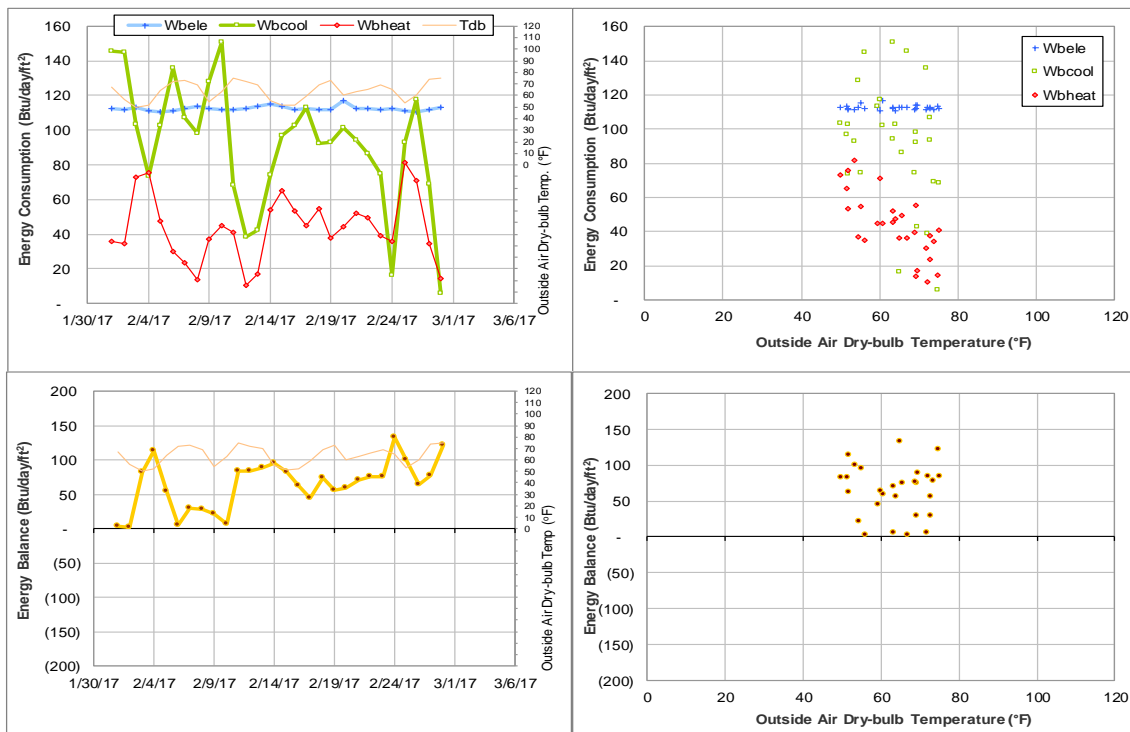


Figure IV-176 West Campus Parking Garage TAMU BLDG # 1559 Energy Balance Plot during February 2017

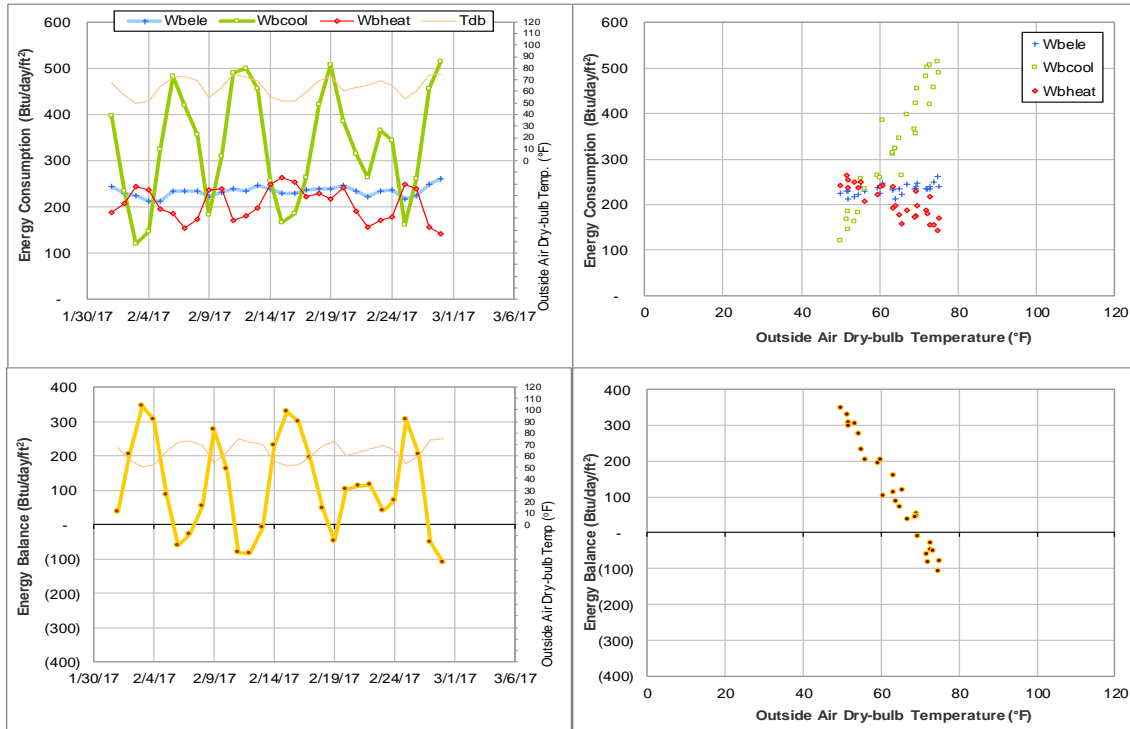


Figure IV-177 Student Recreation Center TAMU BLDG # 1560 Energy Balance Plot during February 2017

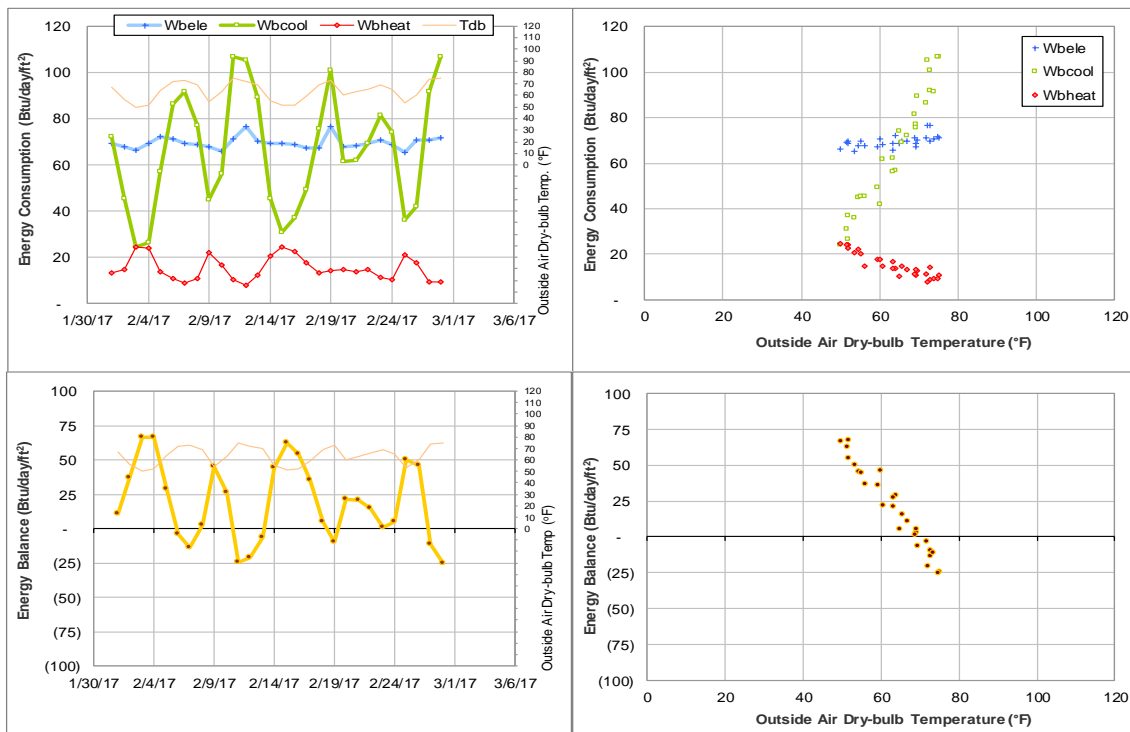


Figure IV-178 White Creek Apartment 1 and White Creek Apts Activity Center TAMU BLDG # 1589 Energy Balance Plot during February 2017

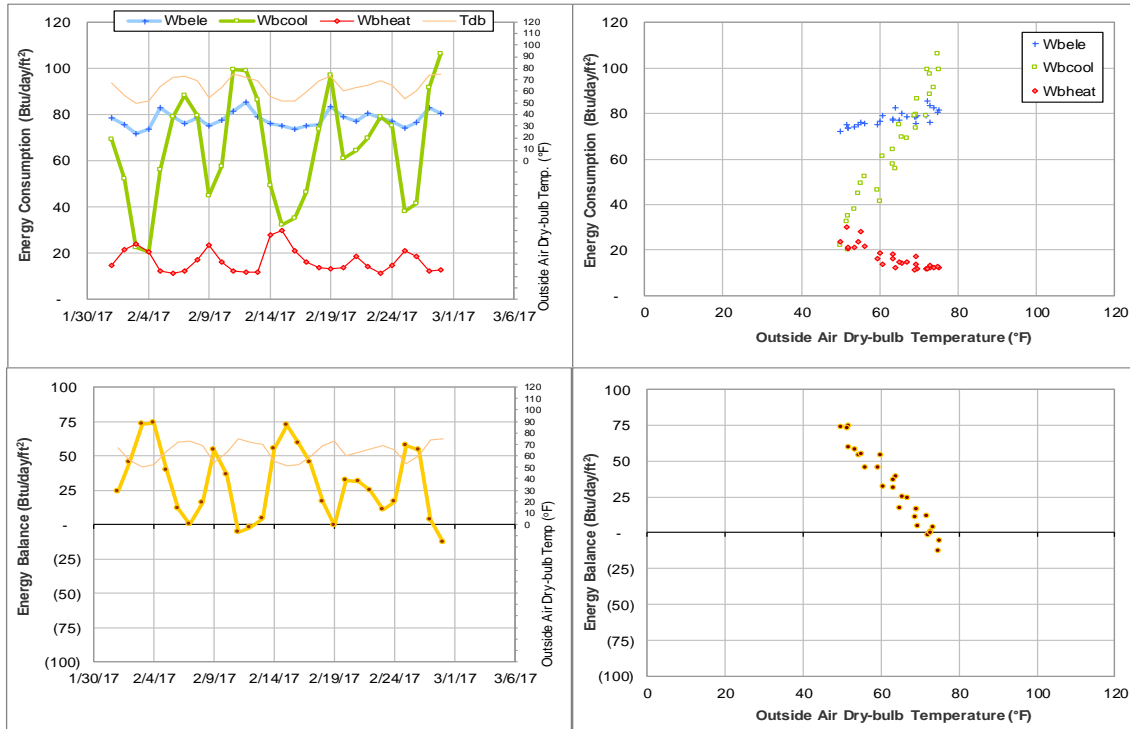


Figure IV-179 White Creek Apartment 2 TAMU BLDG # 1591 Energy Balance Plot during February 2017

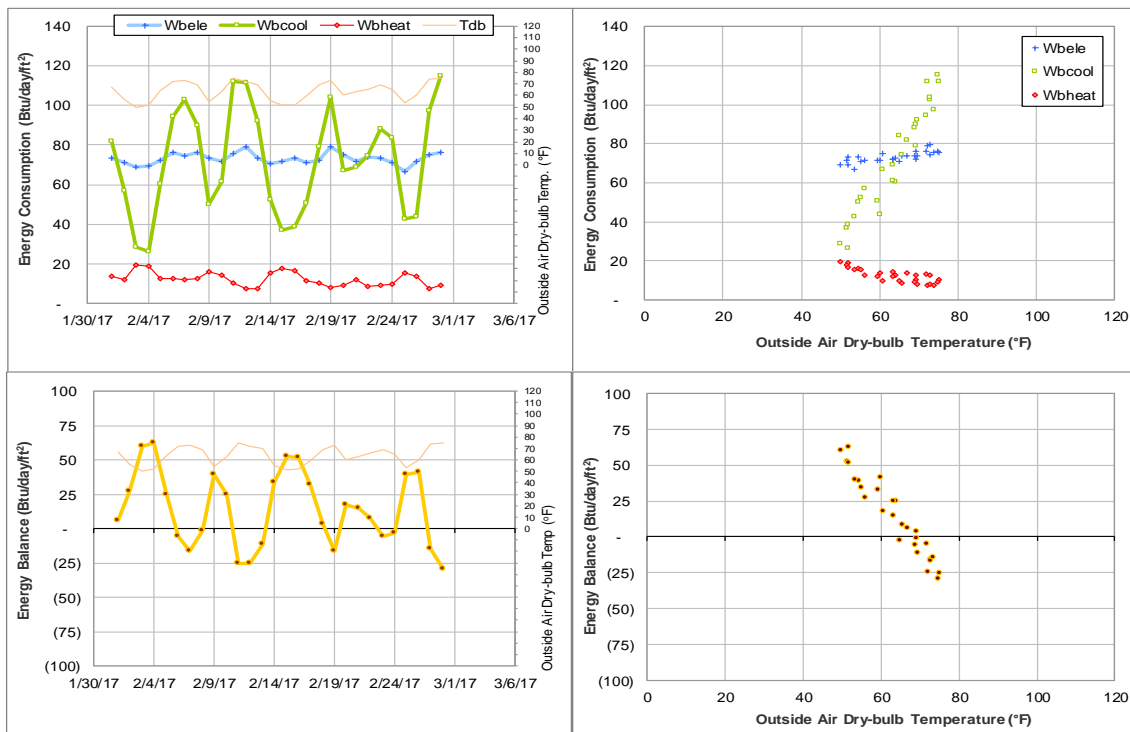


Figure IV-180 White Creek Apartment 3 TAMU BLDG # 1592 Energy Balance Plot during February 2017

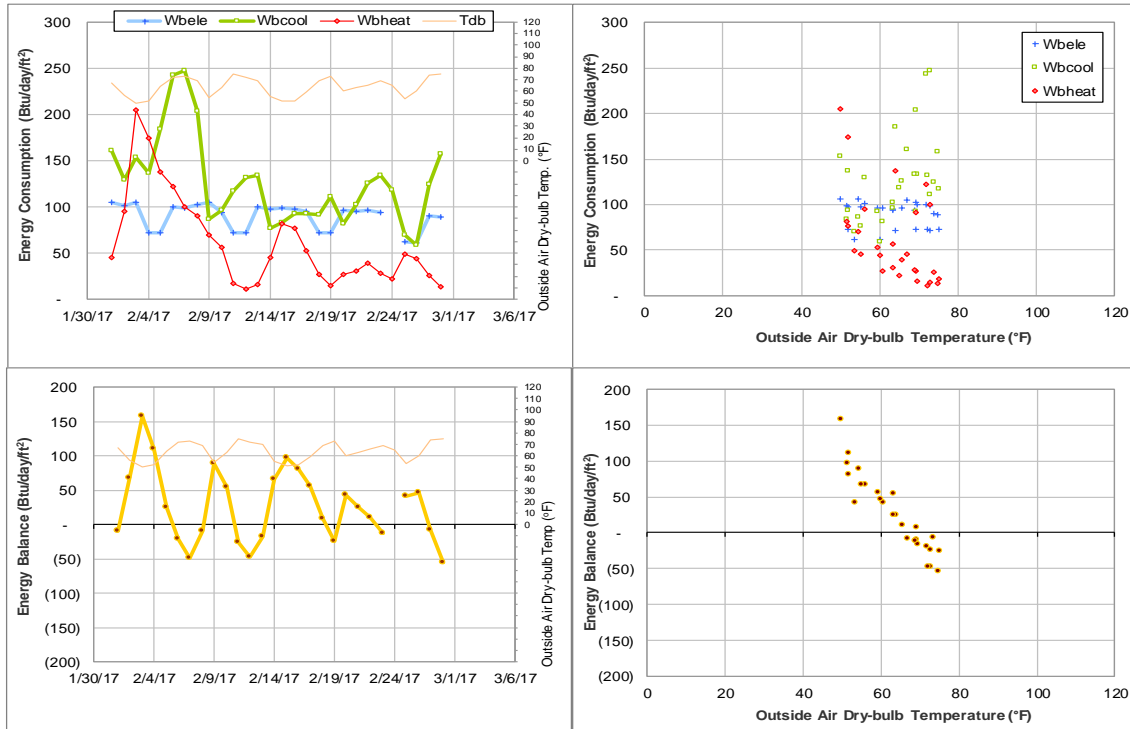


Figure IV-181 Gilchrist TTI Building TAMU BLDG # 1600 Energy Balance Plot during February 2017

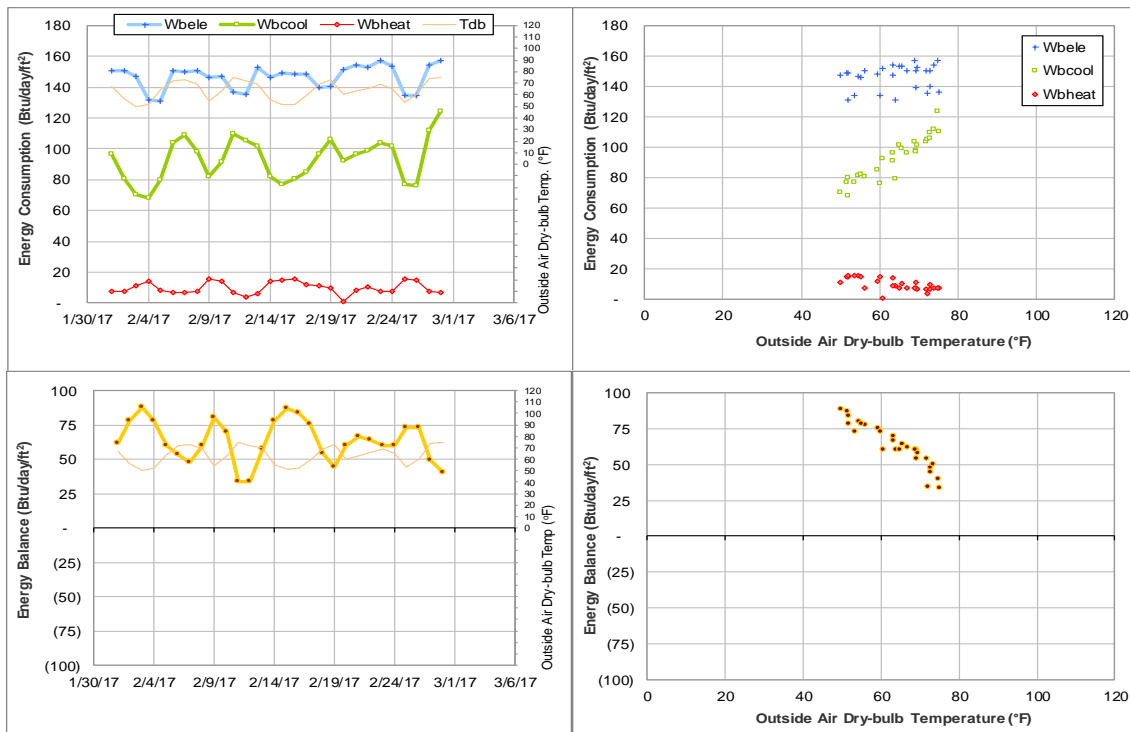


Figure IV-182 International Ocean Discovery Building TAMU BLDG # 1601 Energy Balance Plot during February 2017

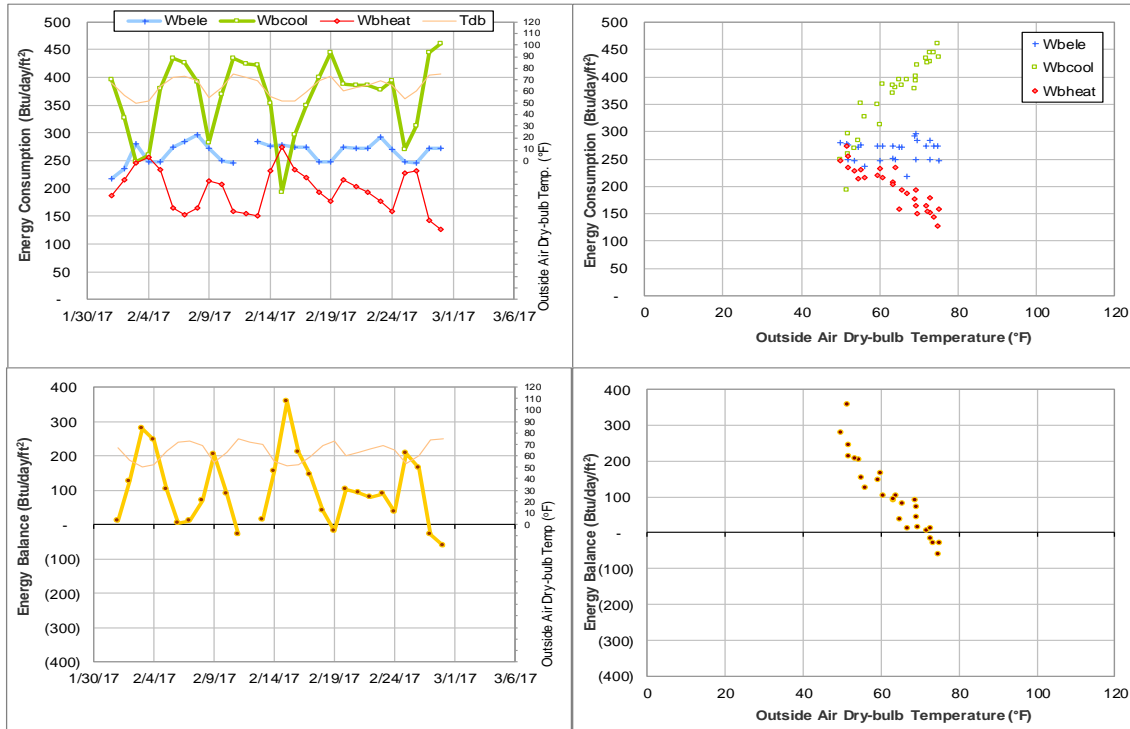


Figure IV-183 Offshore Technology Research Center TAMU BLDG # 1604 Energy Balance Plot during February 2017

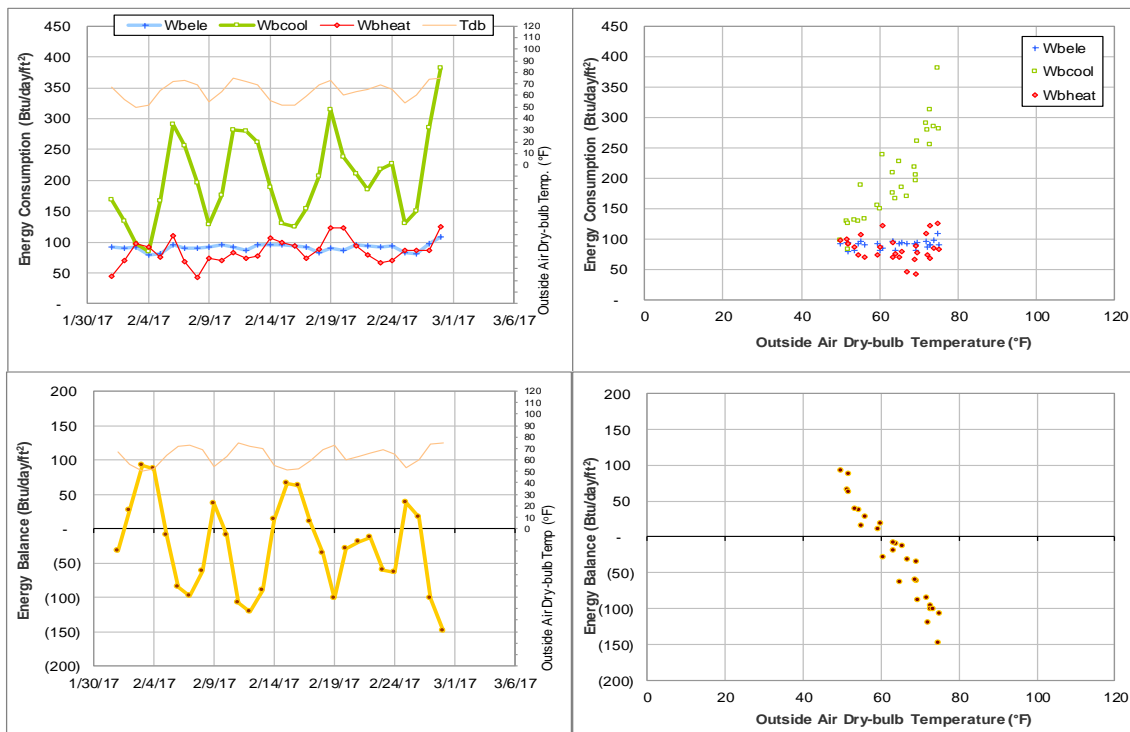


Figure IV-184 George Bush Presidential Library & Museum TAMU BLDG # 1606 Energy Balance Plot during February 2017

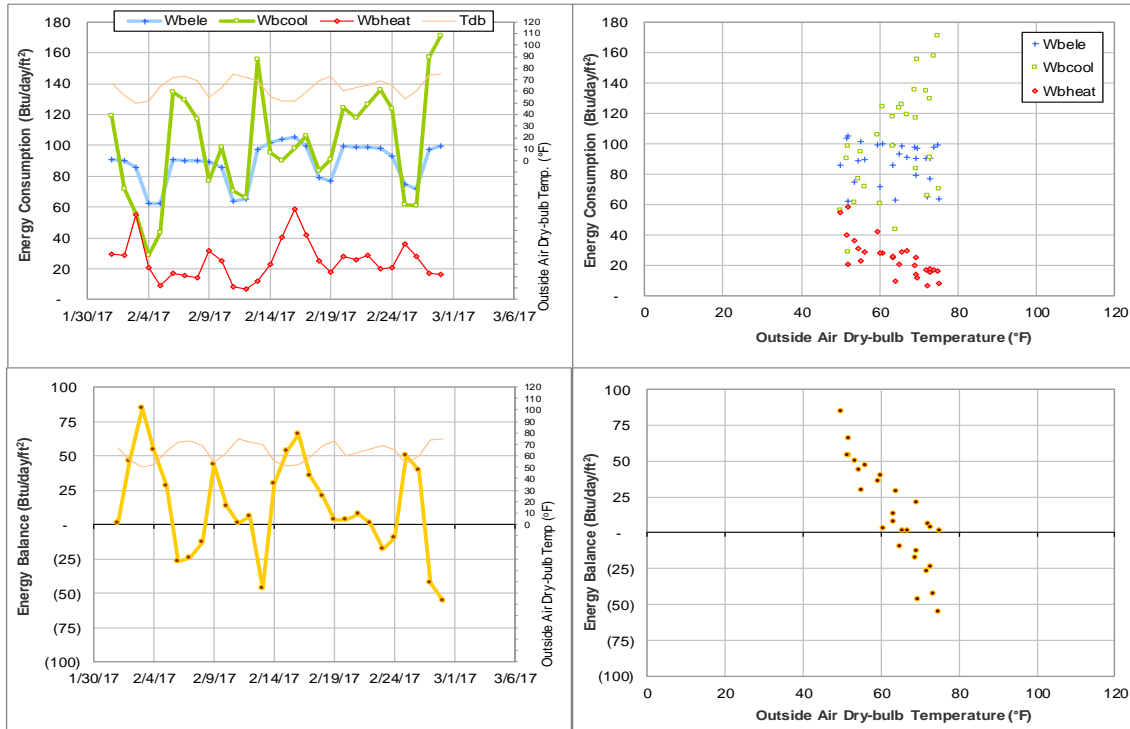


Figure IV-185 Allen Building TAMU BLDG # 1607 Energy Balance Plot during February 2017

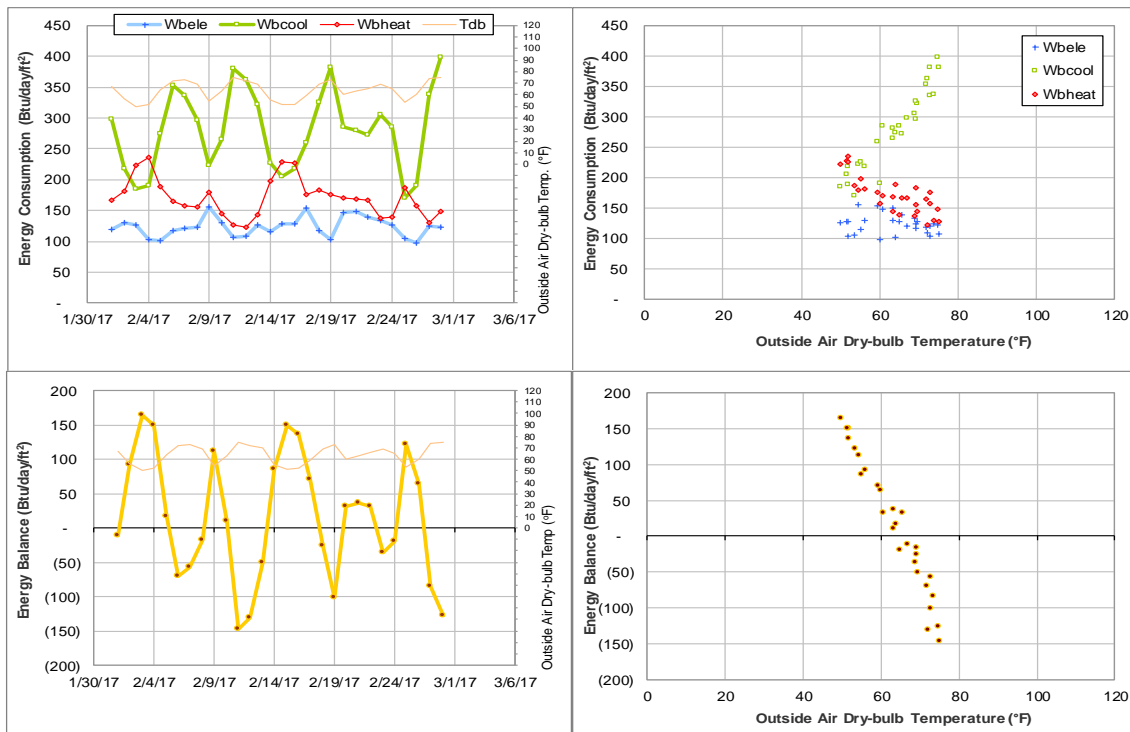


Figure IV-186 Annenberg Presidential Conference Center TAMU BLDG # 1608 Energy Balance Plot during February 2017

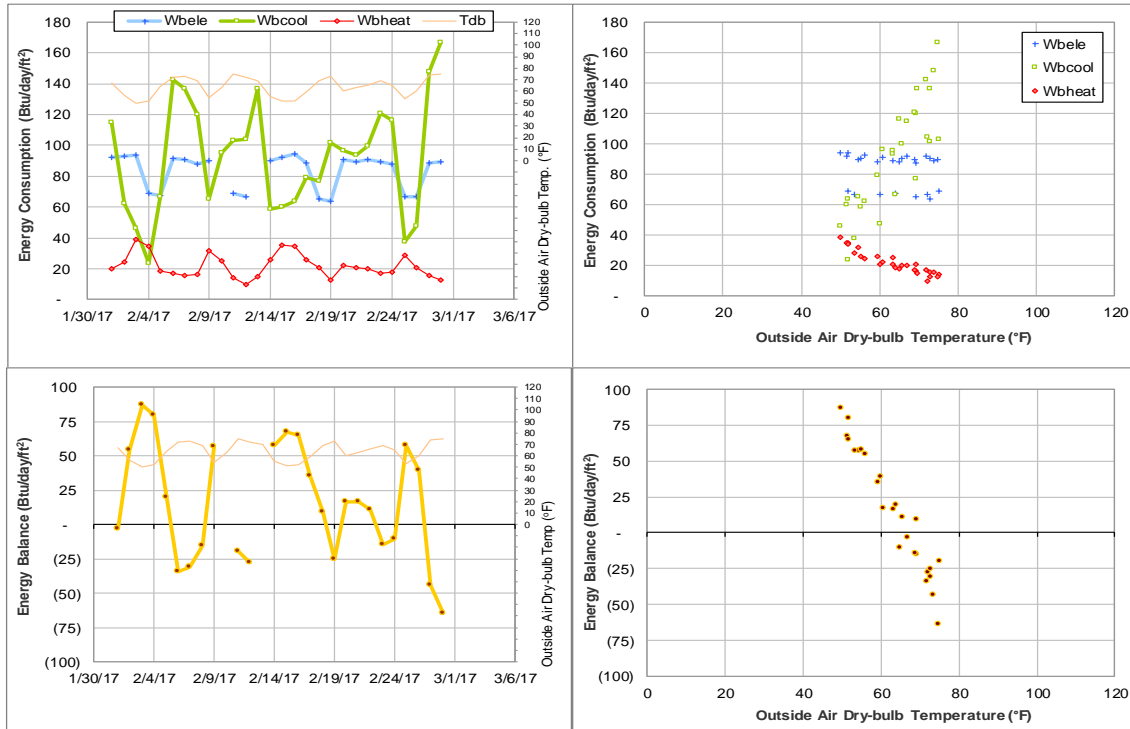


Figure IV-187 TTI Headquarters TAMU BLDG # 1609 Energy Balance Plot during February 2017

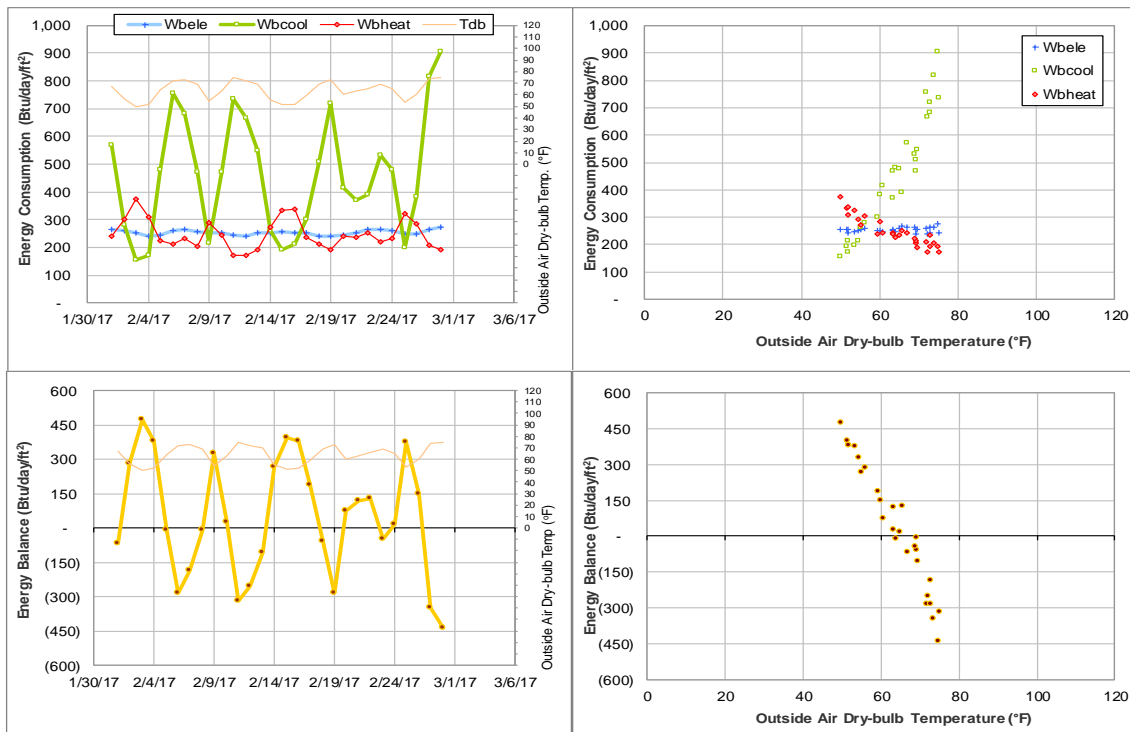


Figure IV-188 Engineering Research Building TAMU BLDG # 1611 Energy Balance Plot during February 2017

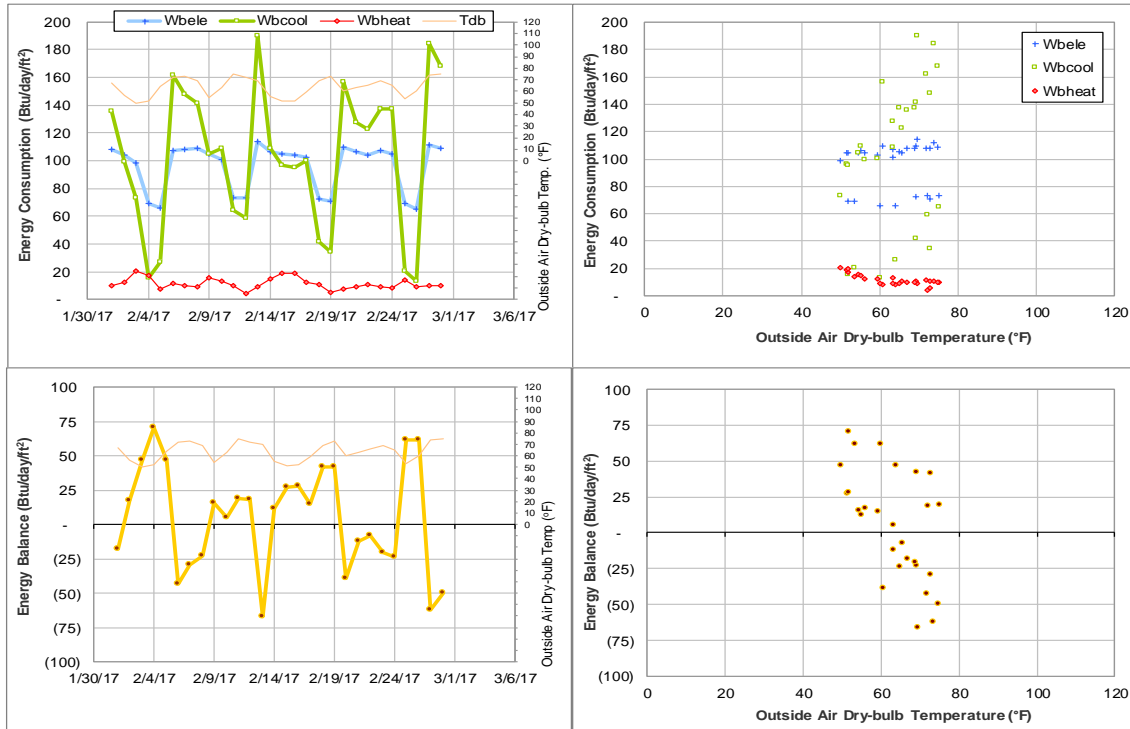


Figure IV-189 General Services Complex TAMU BLDG # 1800 Energy Balance Plot during February 2017

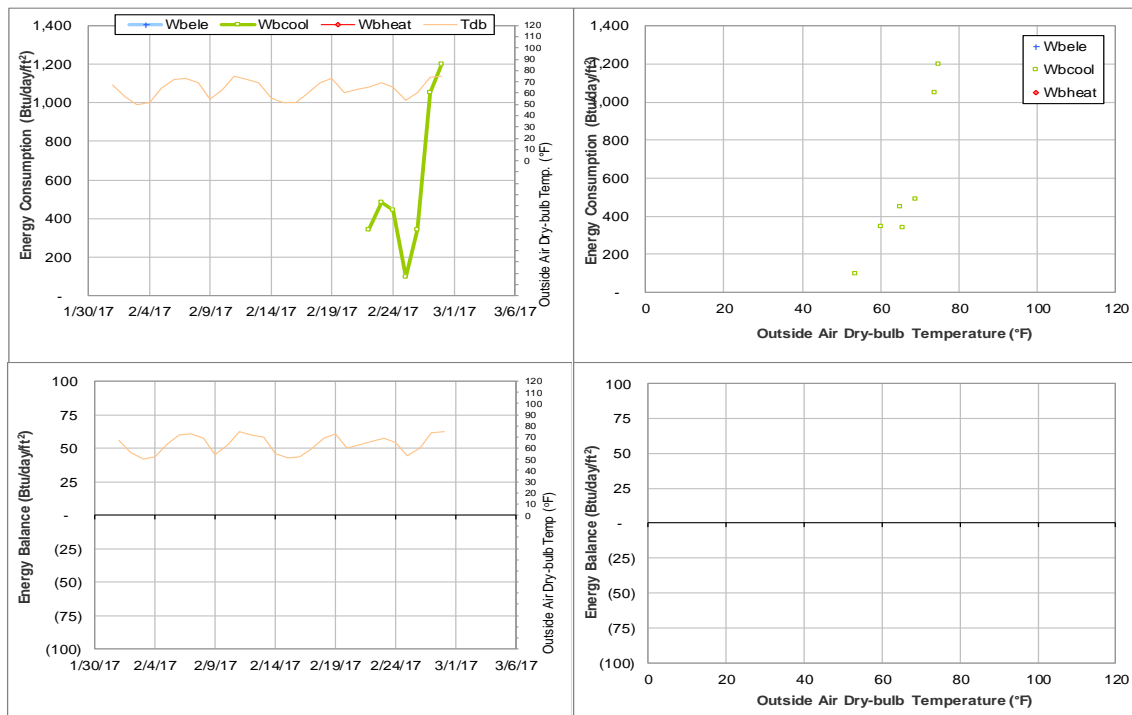


Figure IV-190 New TVMDL TAMU BLDG # 1809 Energy Balance Plot during February 2017

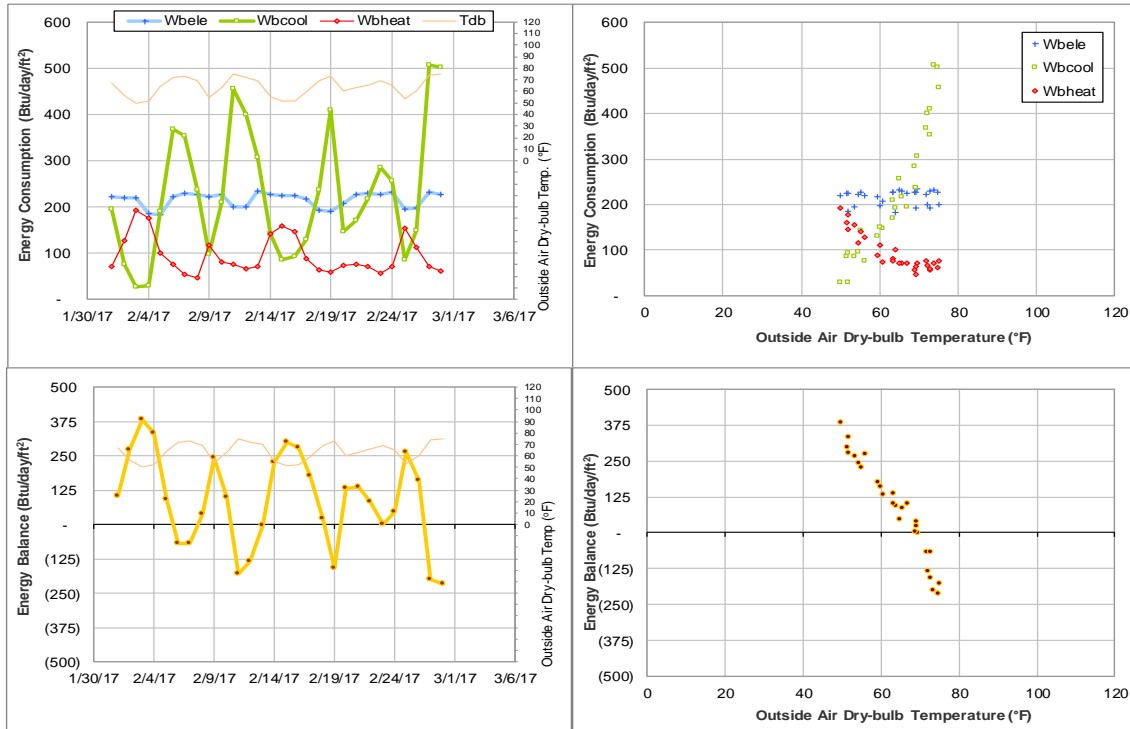


Figure IV-191 Office of the State Chemist Building TAMU BLDG # 1810 Energy Balance Plot during February 2017

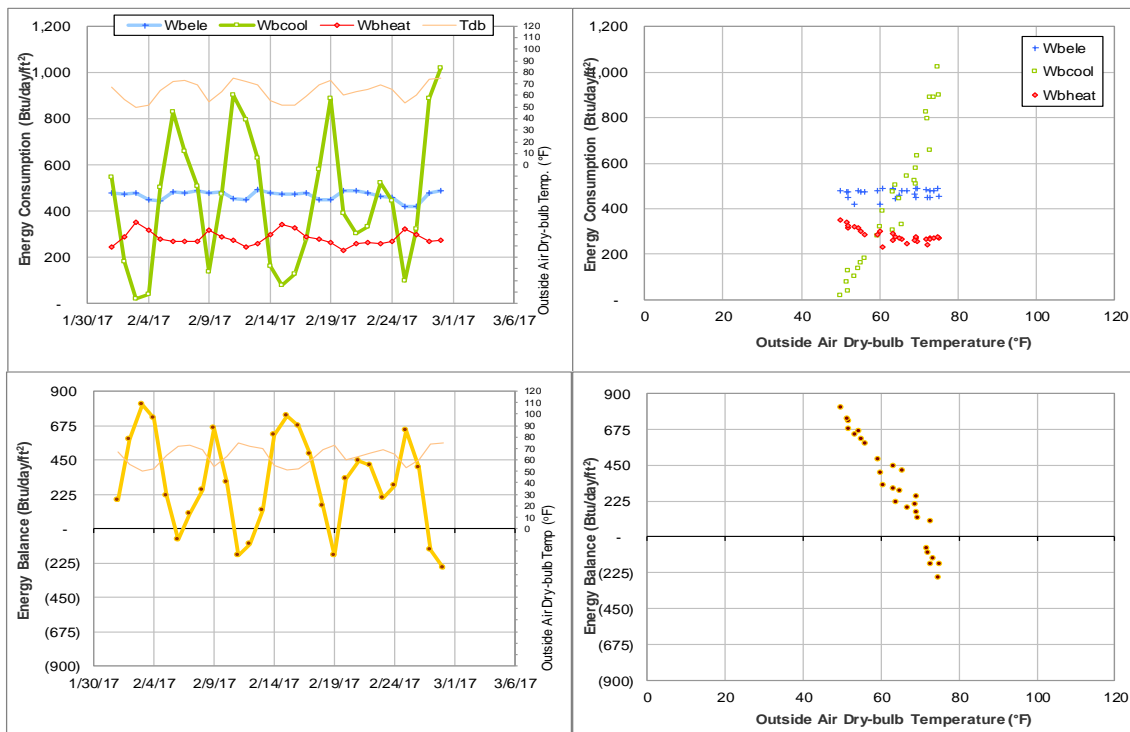


Figure IV-192 Vet Med Research Bldg Addition TAMU BLDG # 1811 Energy Balance Plot during February 2017

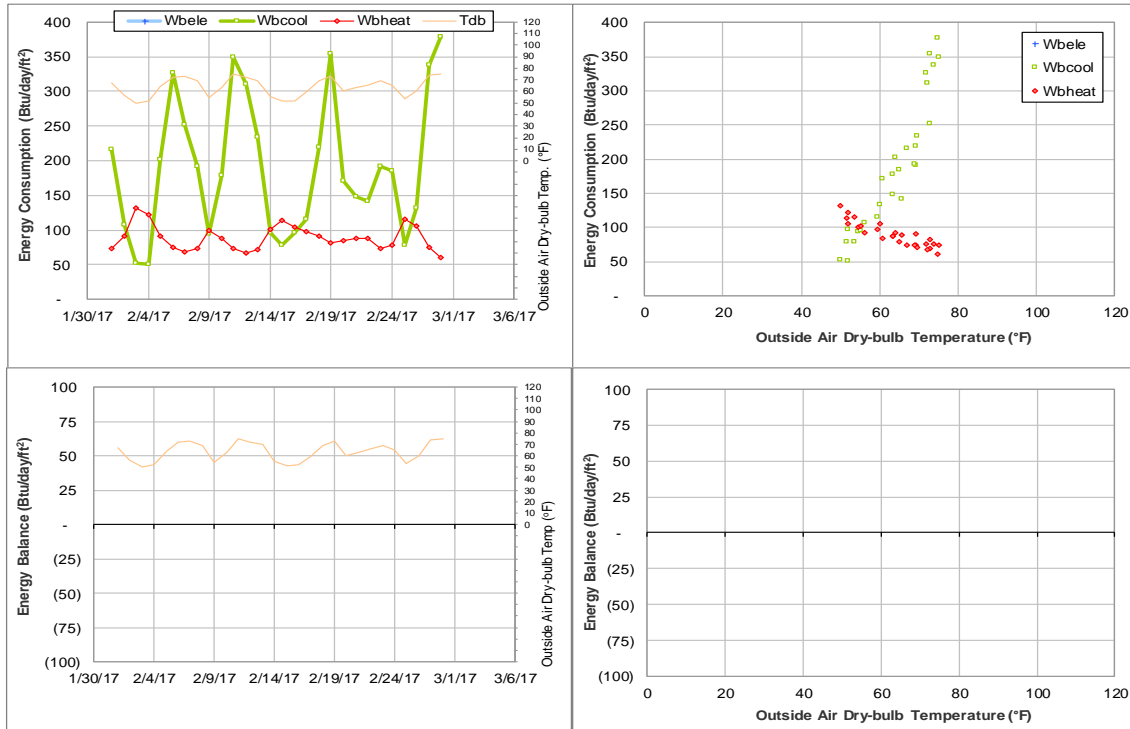


Figure IV-193 Veterinary Medicine Building 1, 2, and 3 TAMU BLDG # 1812 Energy Balance Plot during February 2017

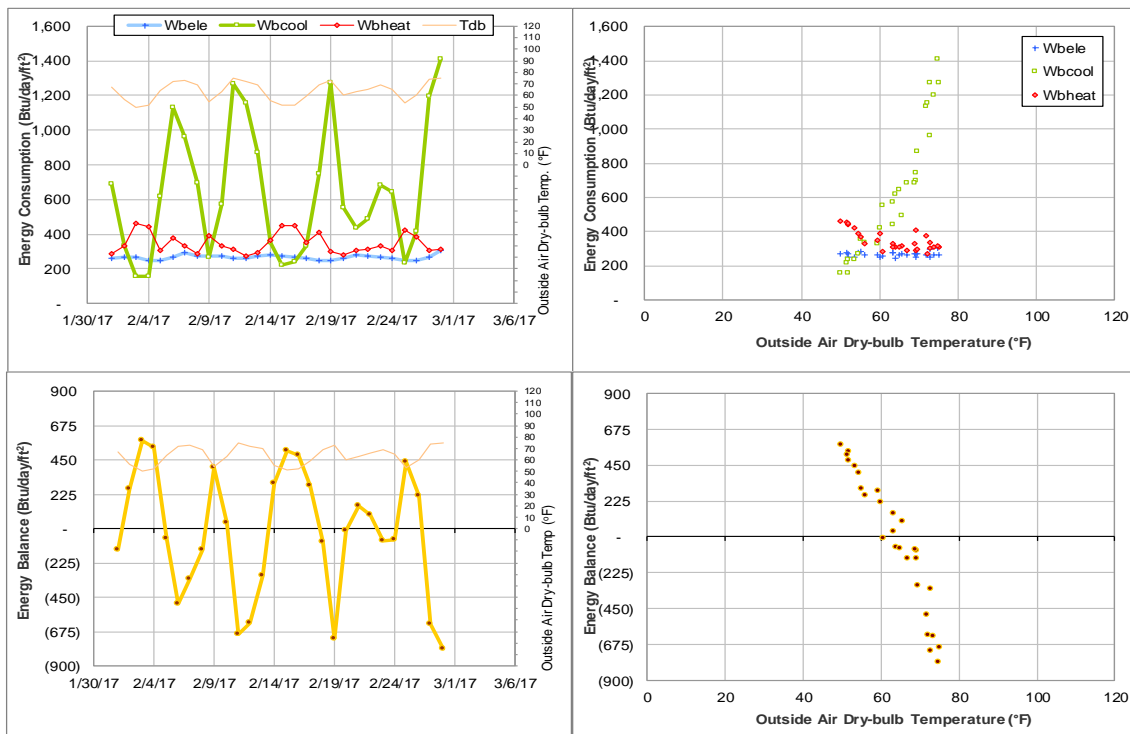


Figure IV-194 Texas Institute for Genomic Medicine TAMU BLDG # 1900 Energy Balance Plot during February 2017

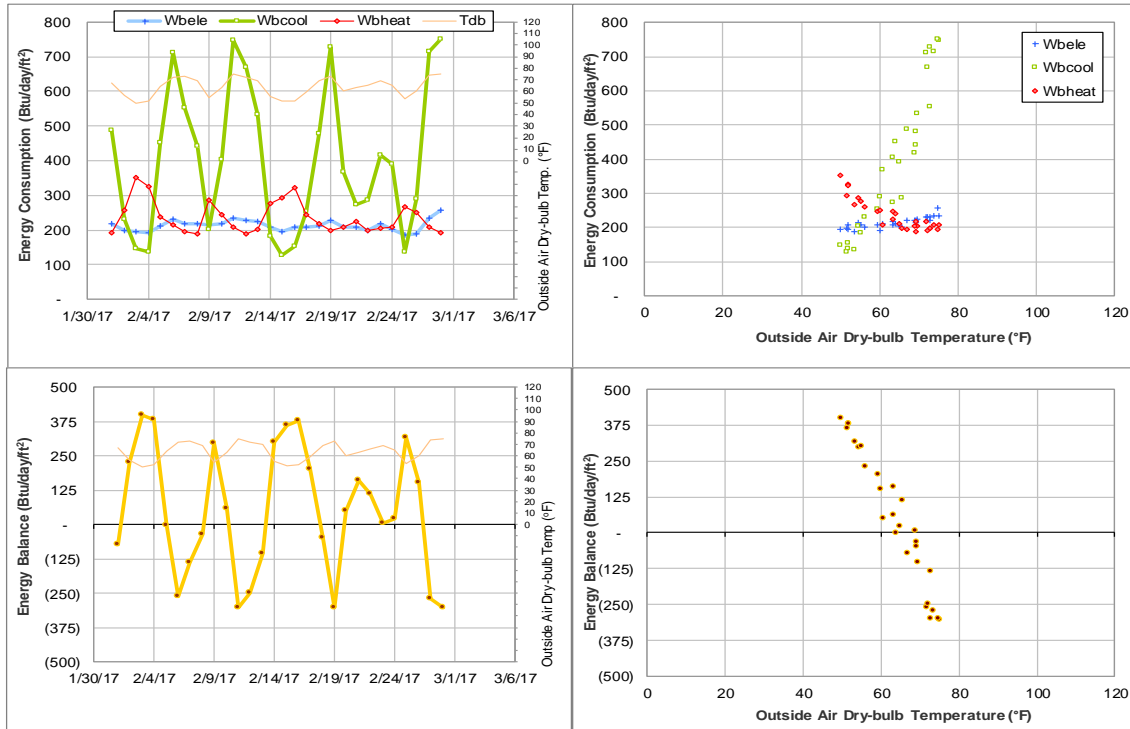


Figure IV-195 Texas A&M Institute for Preclinical Studies A TAMU BLDG # 1904 Energy Balance Plot during February 2017

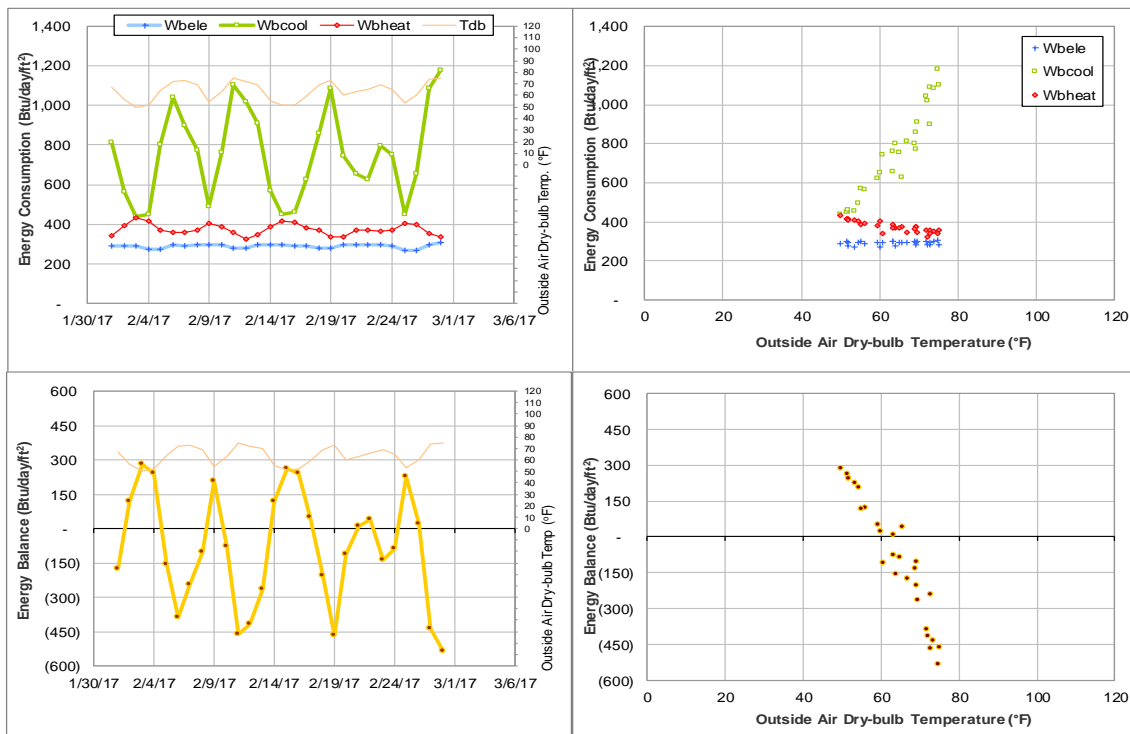


Figure IV-196 National Center for Therapeutics Manufacturing TAMU BLDG # 1910 Energy Balance Plot during February 2017

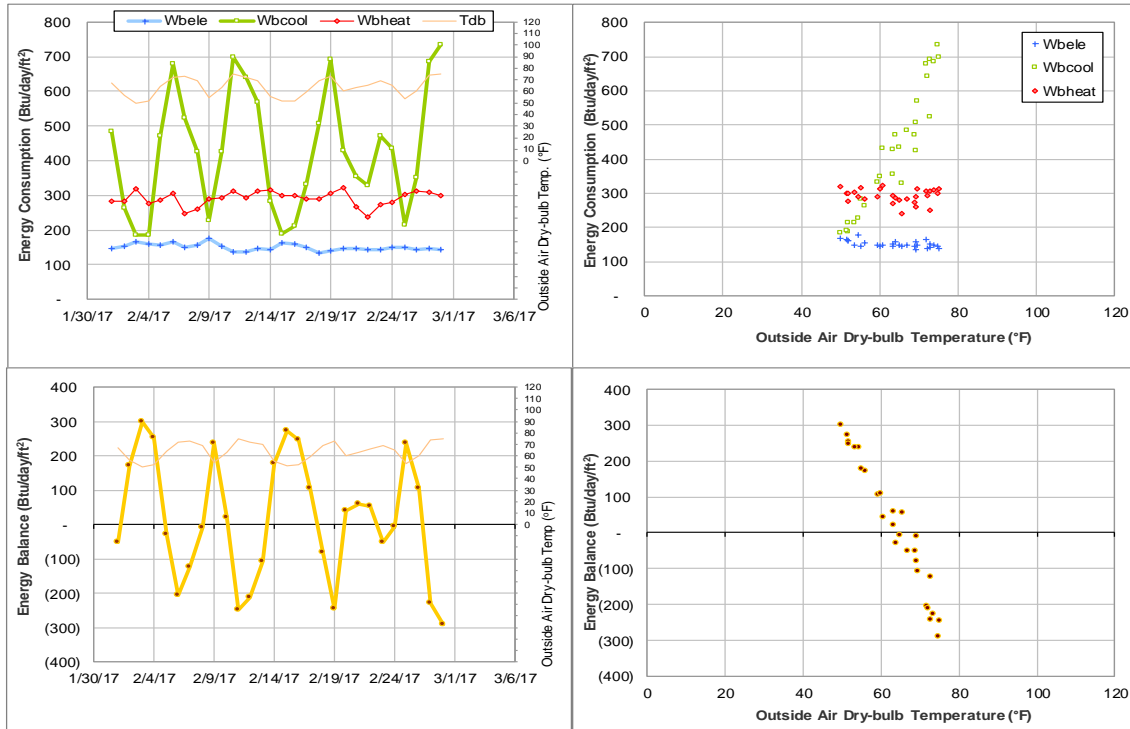


Figure IV-197 Multi-Species Research Building TAMU BLDG # 1911 Energy Balance Plot during February 2017

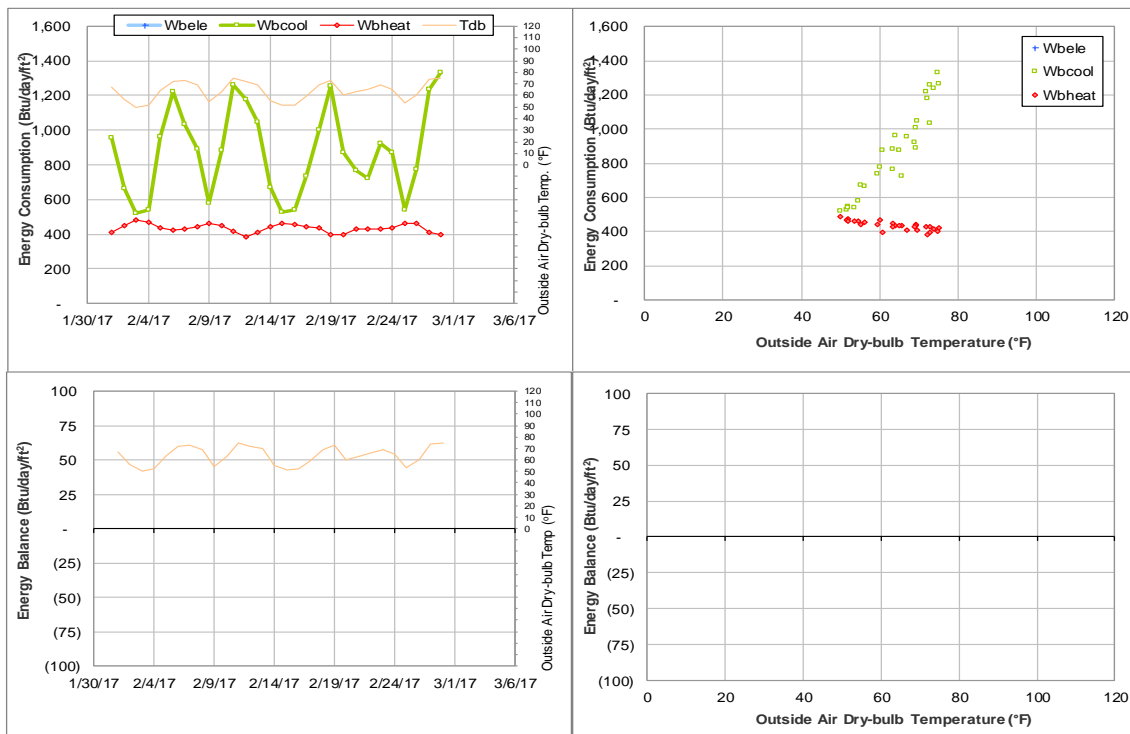


Figure IV-198 NCTM Manufacturing Building TAMU BLDG # 10226 Energy Balance Plot during February 2017

**V. Energy Balance Plots with Filled-in data for
February 2017 Consumption**

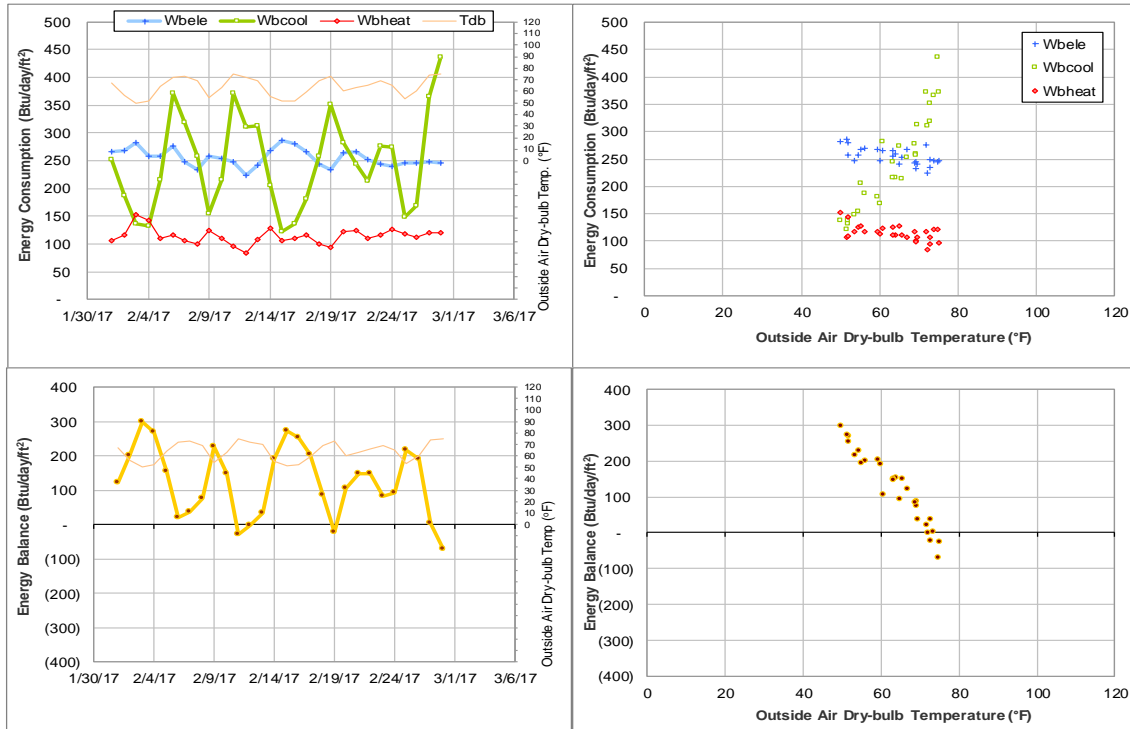


Figure V-1 Kyle Field TAMU BLDG # 367 Energy Balance Plot during February 2017

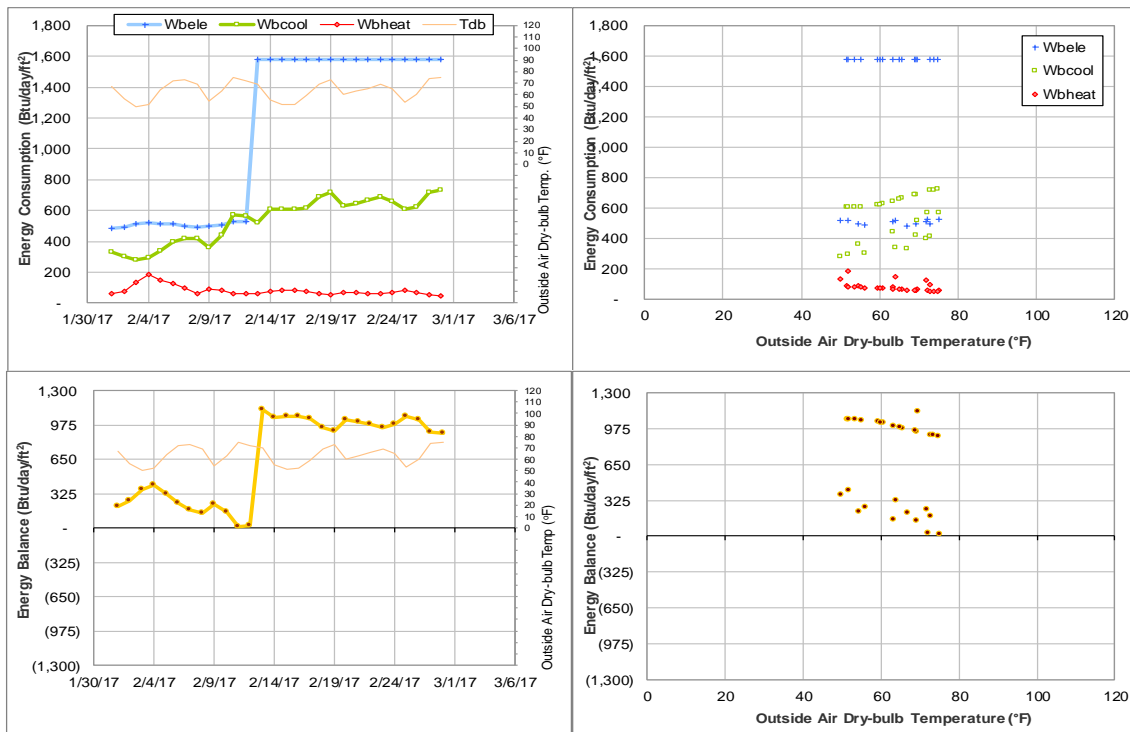


Figure V-2 Luedecke Building (Cyclotron) TAMU BLDG # 434 Energy Balance Plot during February 2017

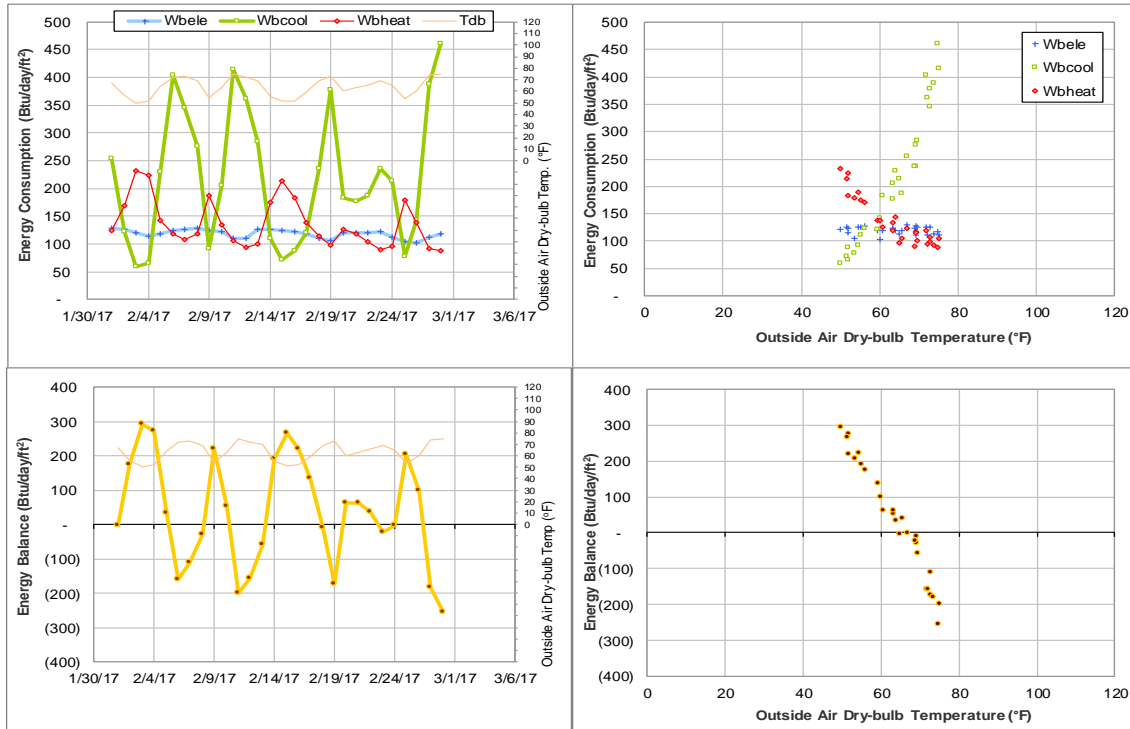


Figure V-3 Reed-McDonald and Engineering Innovation Center TAMU BLDG # 436 Energy Balance Plot during February 2017

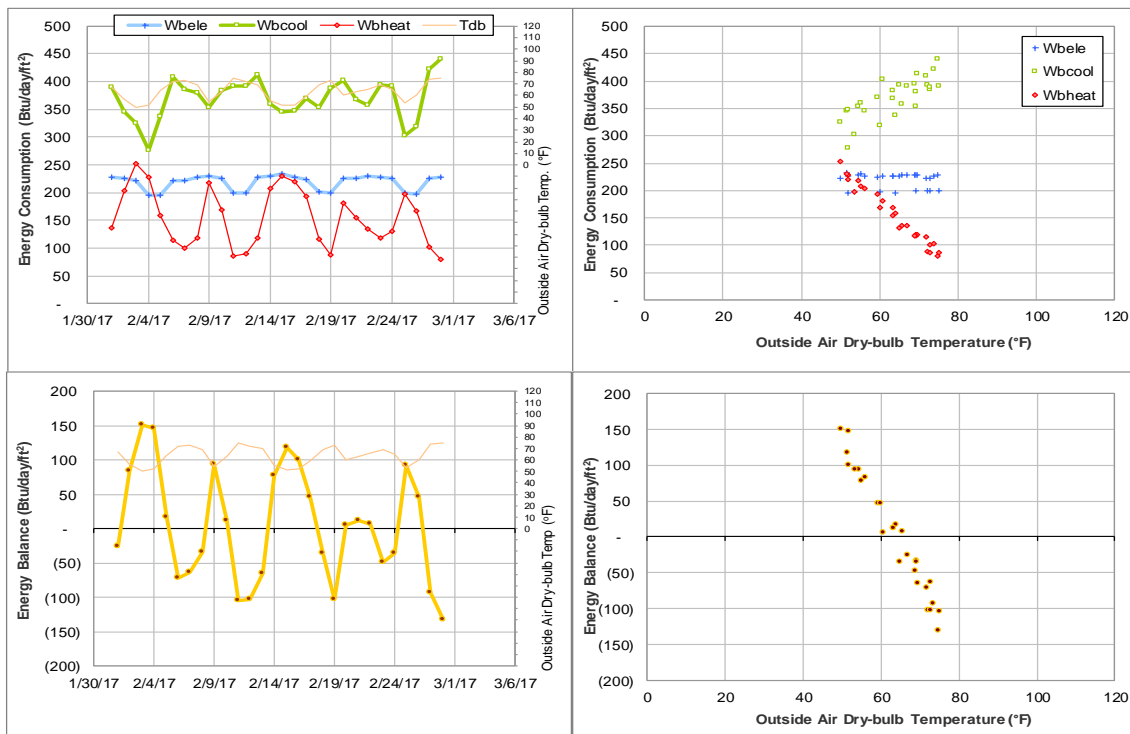


Figure V-4 Peterson Building TAMU BLDG # 444 Energy Balance Plot during February 2017

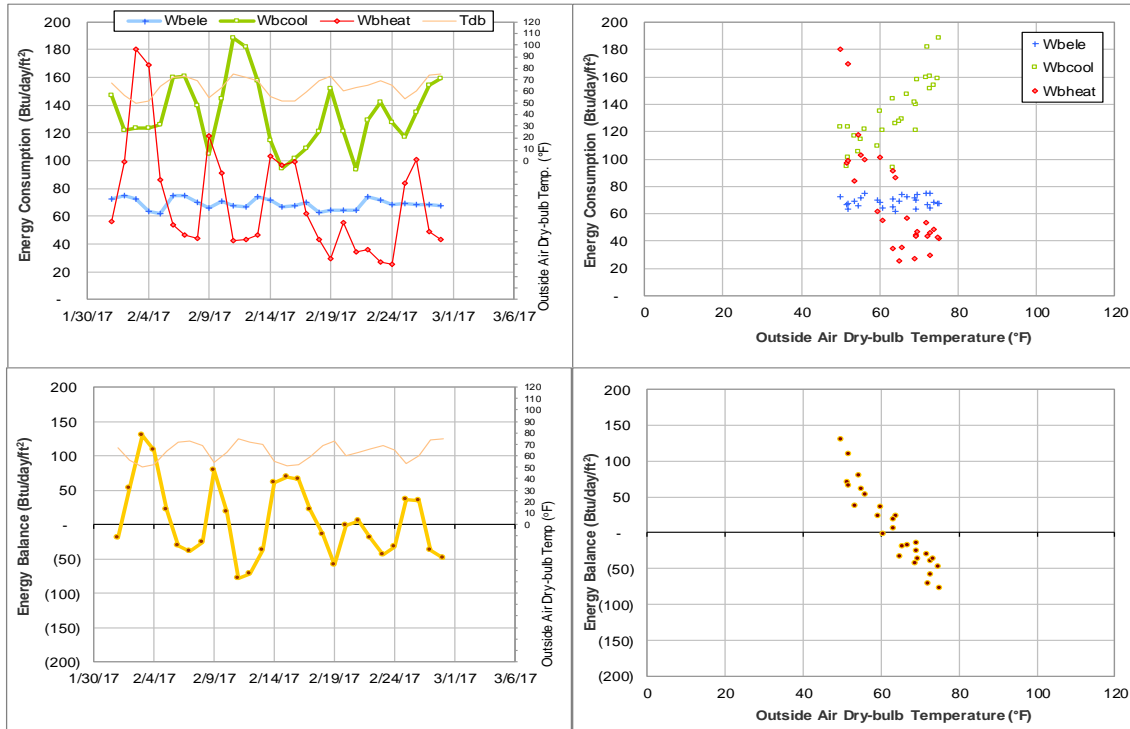


Figure V-5 Rudder Tower and Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2017

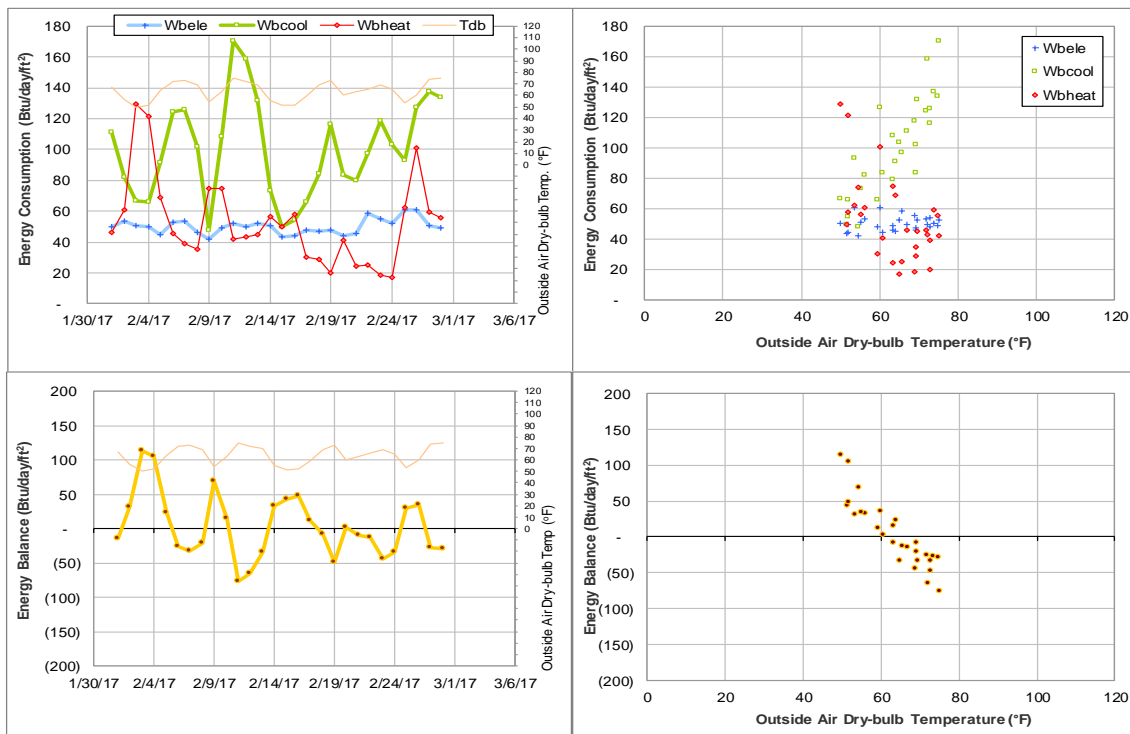


Figure V-6 Rudder Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2017

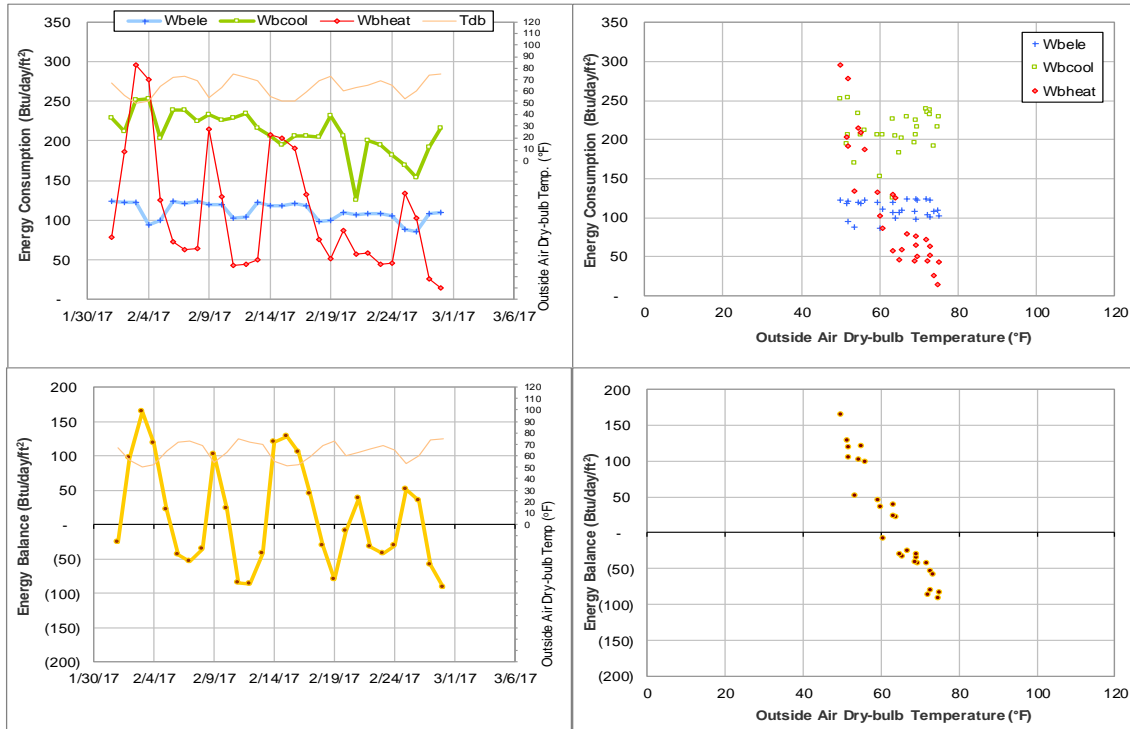


Figure V-7 Rudder Tower TAMU BLDG # 446 Energy Balance Plot during February 2017

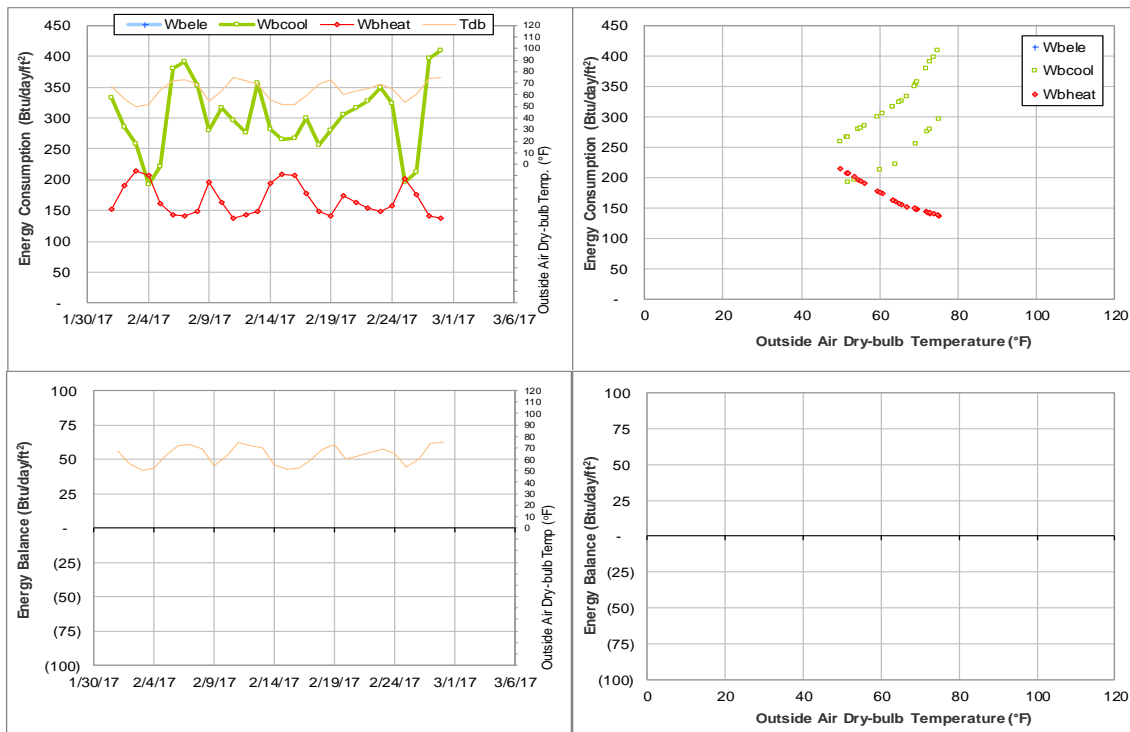


Figure V-8 Military Sciences Building TAMU BLDG # 456 Energy Balance Plot during February 2017

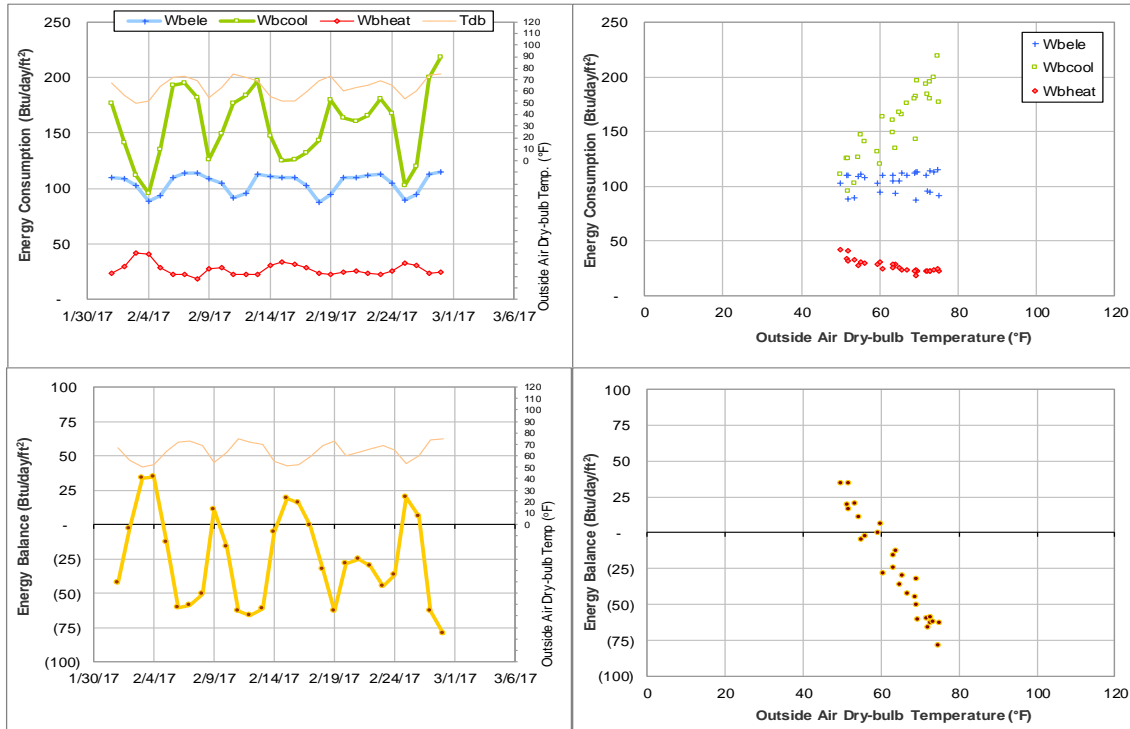


Figure V-9 Evans Library TAMU BLDG # 468 Energy Balance Plot during February 2017

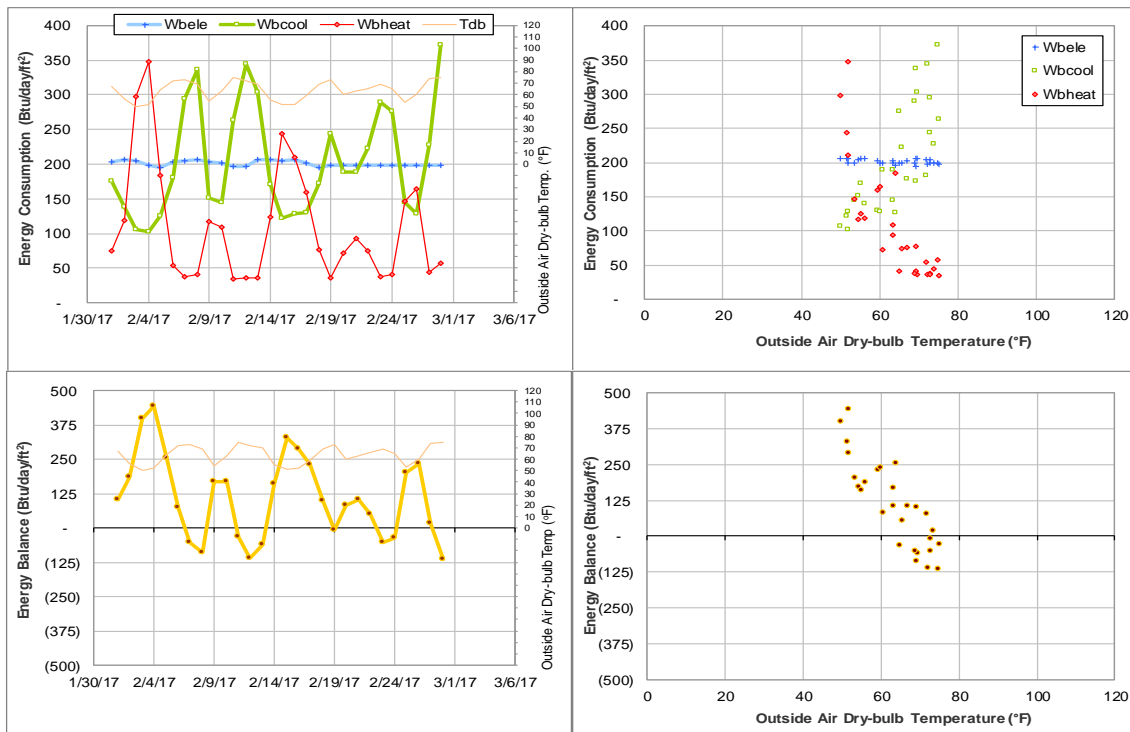


Figure V-10 Central Campus Parking Garage TAMU BLDG # 469 Energy Balance Plot during February 2017

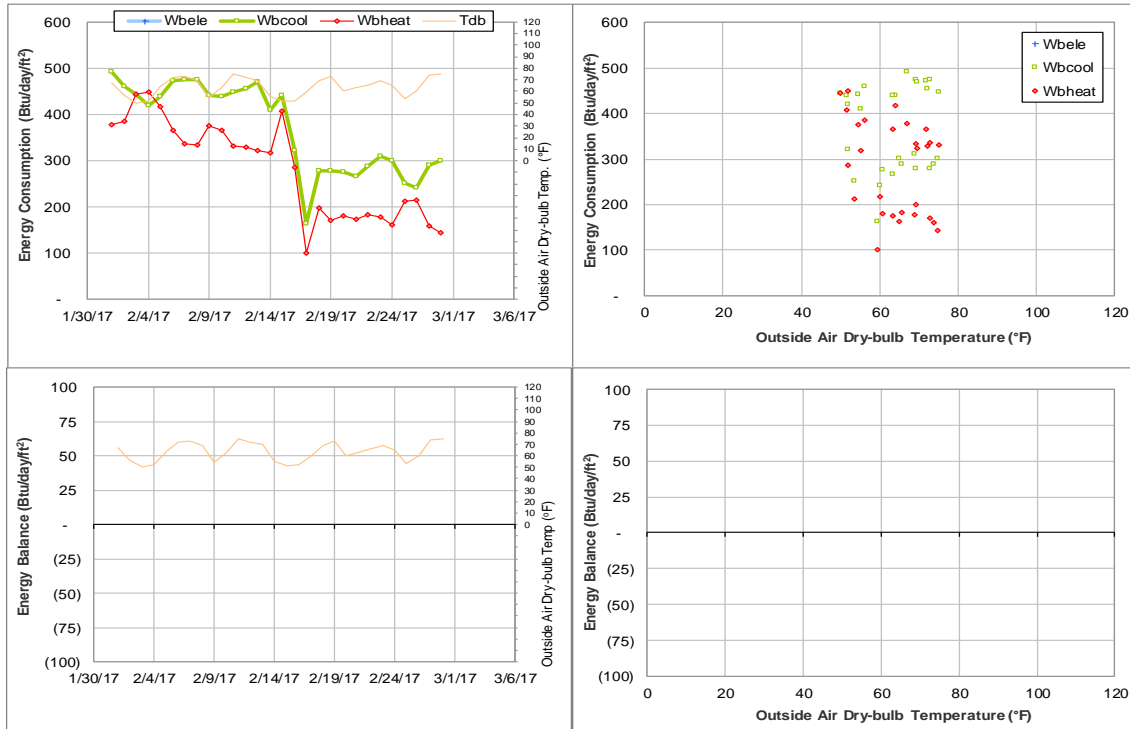


Figure V-11 Heaton Hall TAMU BLDG # 481 Energy Balance Plot during February 2017

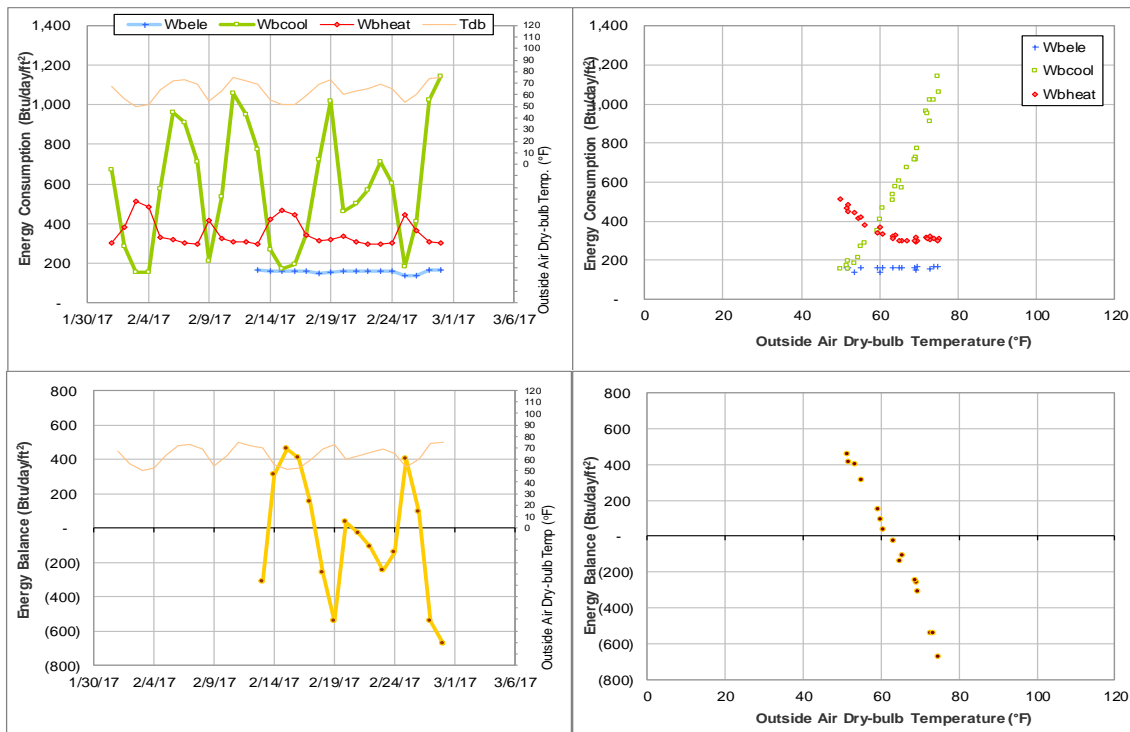


Figure V-12 Chemistry Building TAMU BLDG # 484 Energy Balance Plot during February 2017

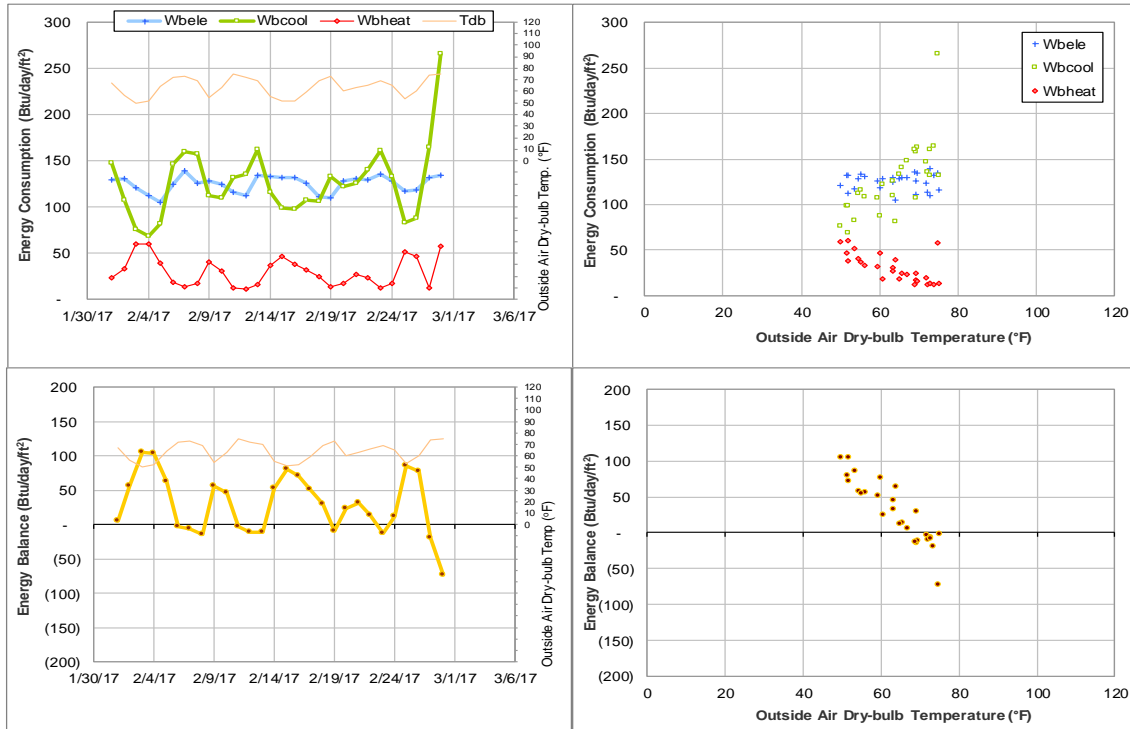


Figure V-13 Civil Engineering Building TAMU BLDG # 492 Energy Balance Plot during February 2017

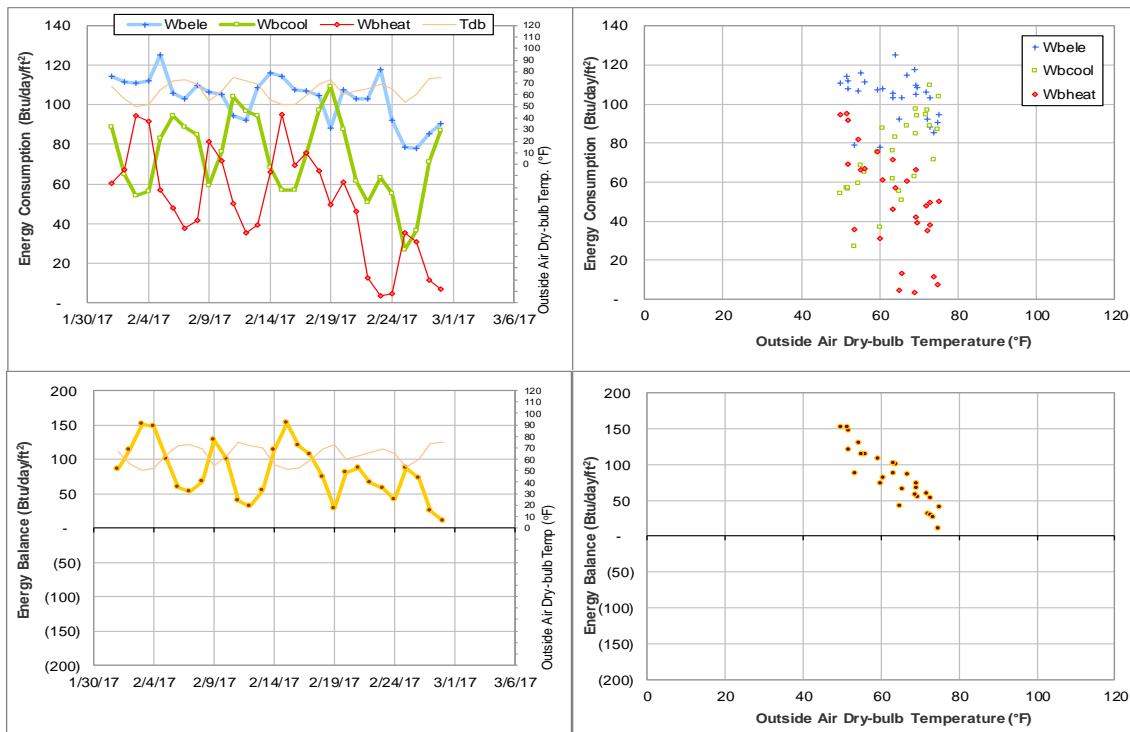


Figure V-14 Engineering Innovation Center TAMU BLDG # 499 Energy Balance Plot during February 2017

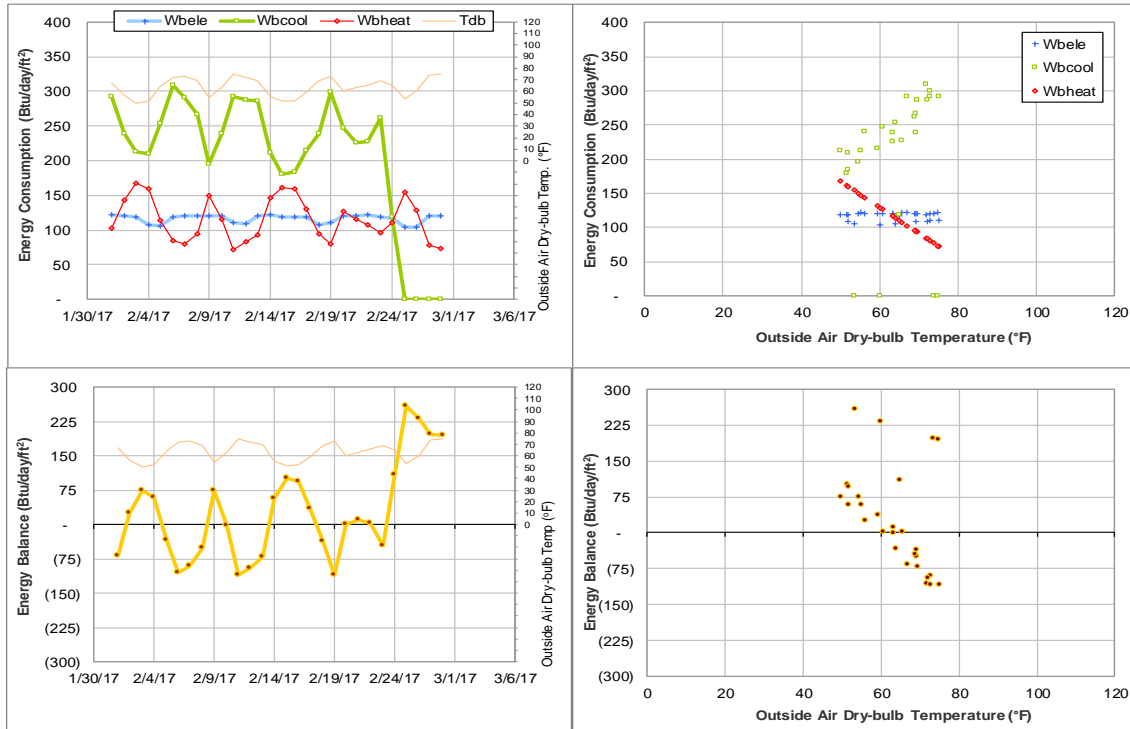


Figure V-15 Veterinary Teaching Hospital and Med Adm TAMU BLDG # 508 Energy Balance Plot during February 2017

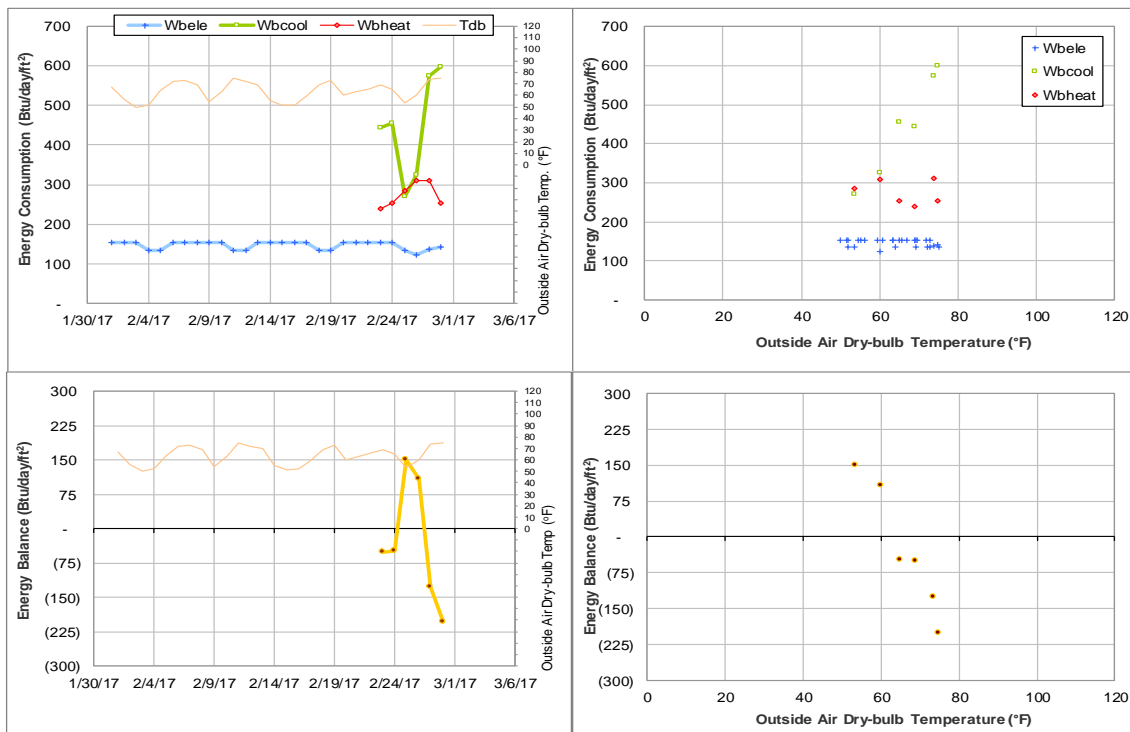


Figure V-16 Doherty Building TAMU BLDG # 513 Energy Balance Plot during February 2017

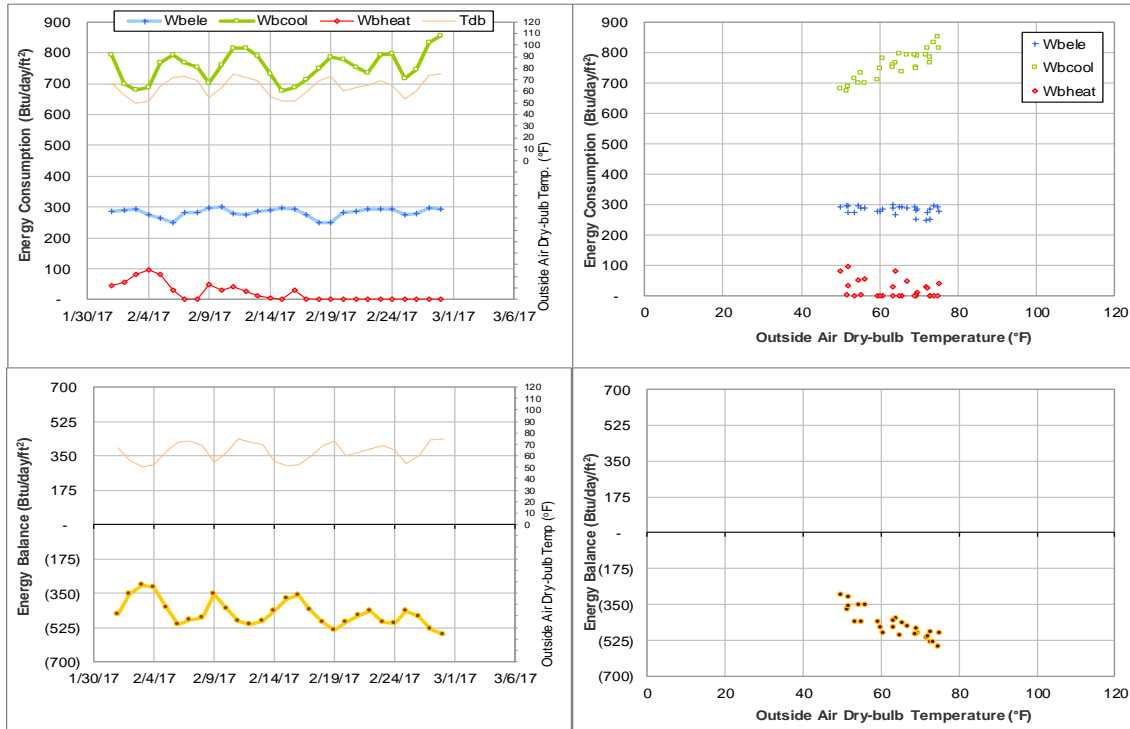


Figure V-17 McNew Laboratory TAMU BLDG # 740 Energy Balance Plot during February 2017

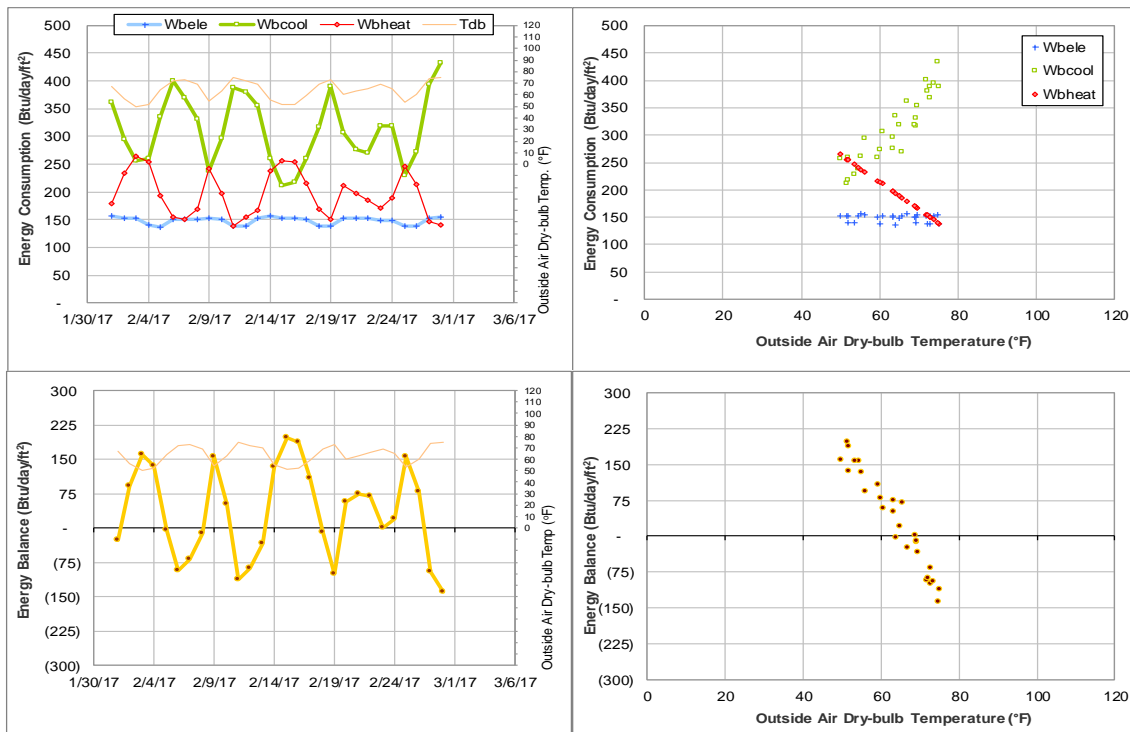


Figure V-18 Veterinary Medicine Administration TAMU BLDG # 1026 Energy Balance Plot during February 2017

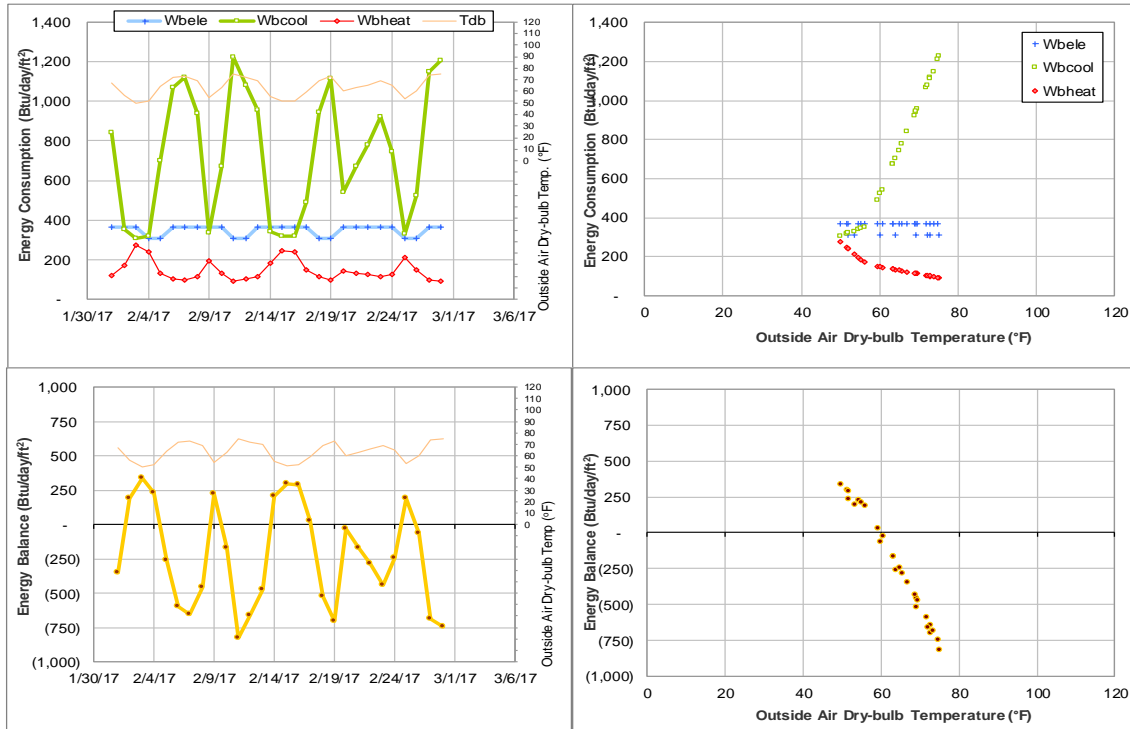


Figure V-19 Texas Vet Med Diagnostic Lab TAMU BLDG # 1041 Energy Balance Plot during February 2017

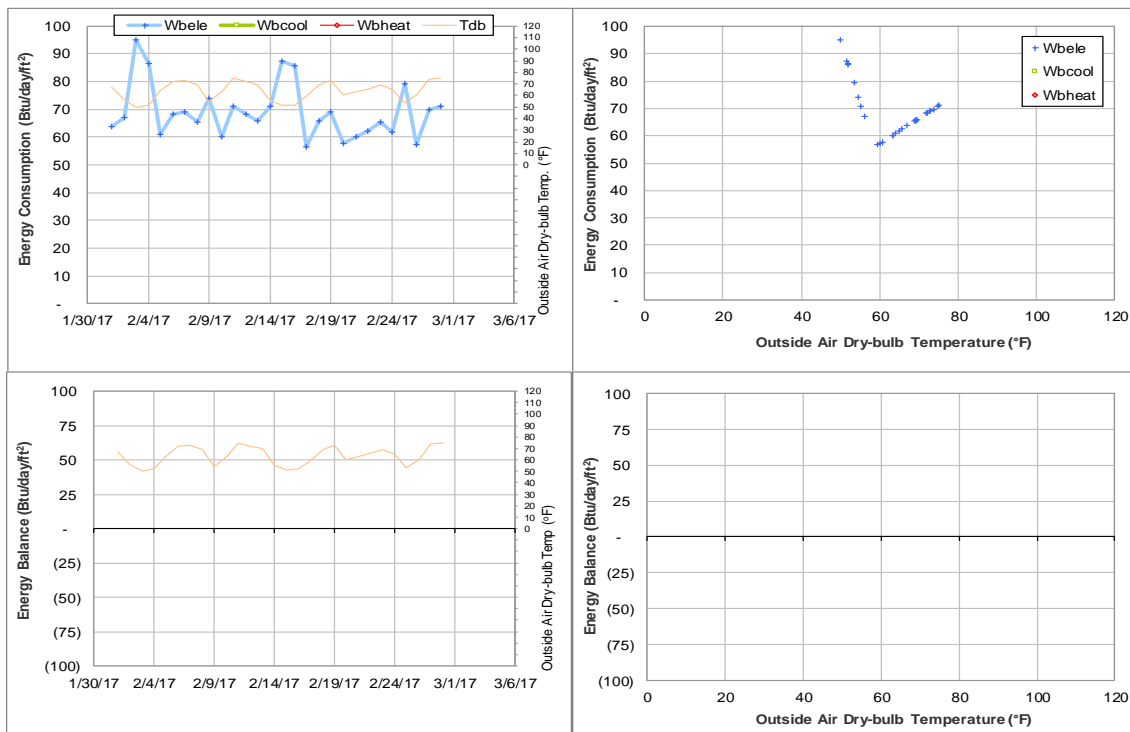


Figure V-20 University Apartments - The Gardens F TAMU BLDG # 1454 Energy Balance Plot during February 2017

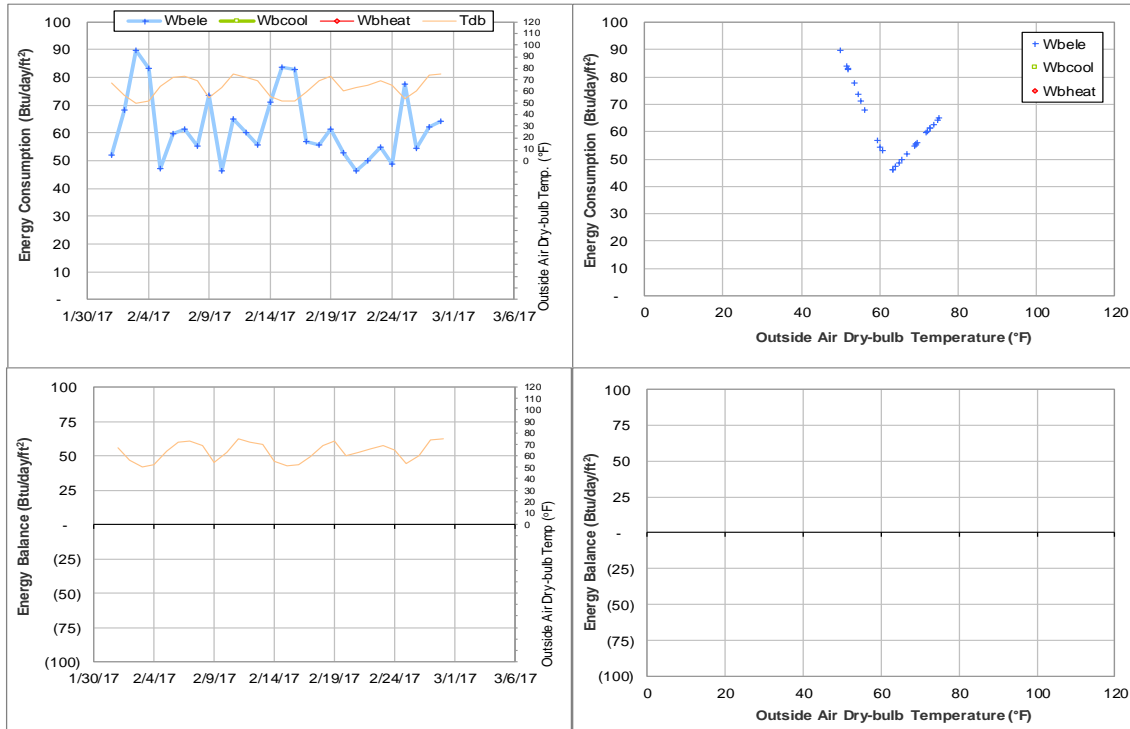


Figure V-21 University Apartments - The Gardens G TAMU BLDG # 1455 Energy Balance Plot during February 2017

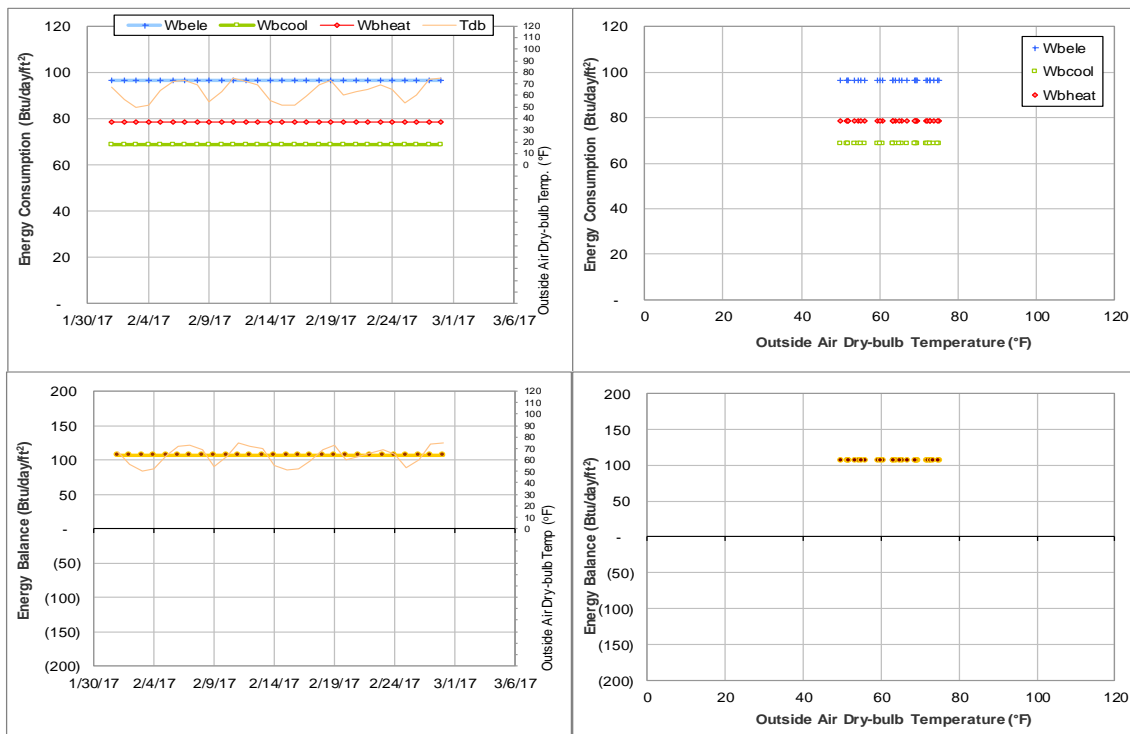


Figure V-22 Agriculture Public Building TAMU BLDG # 1537 Energy Balance Plot during February 2017

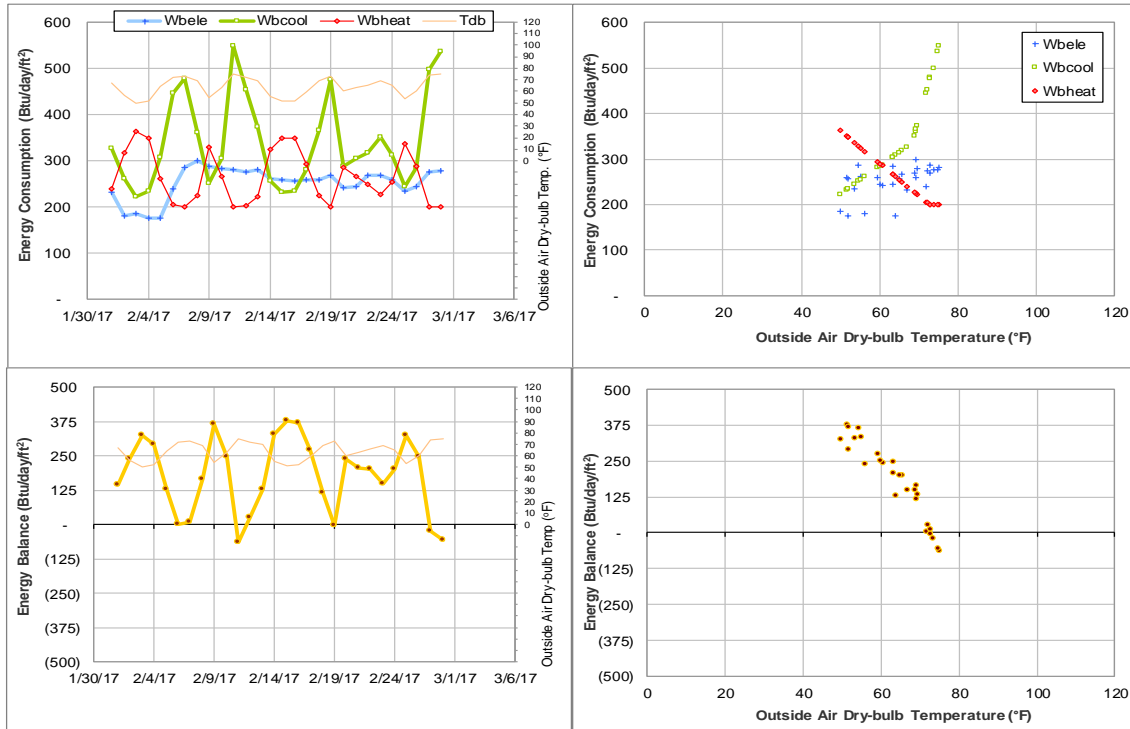


Figure V-23 Human Clinical Research Building TAMU BLDG # 1542 Energy Balance Plot during February 2017

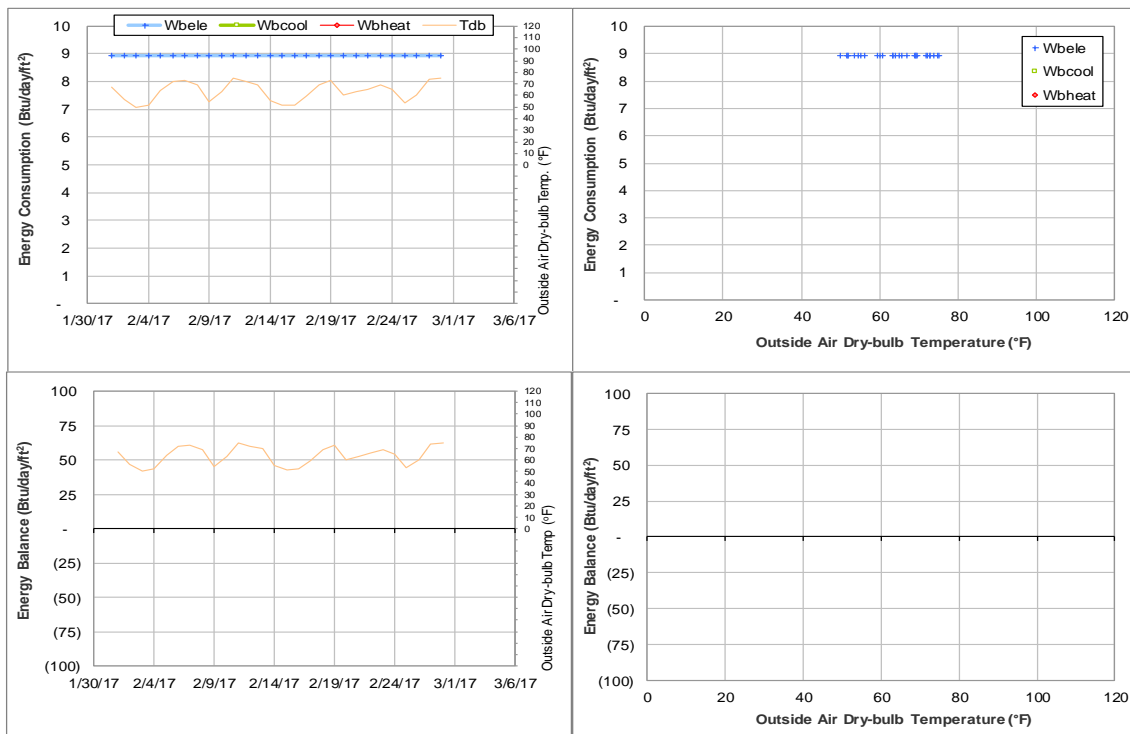


Figure V-24 Cain Garage TAMU BLDG # 1544 Energy Balance Plot during February 2017

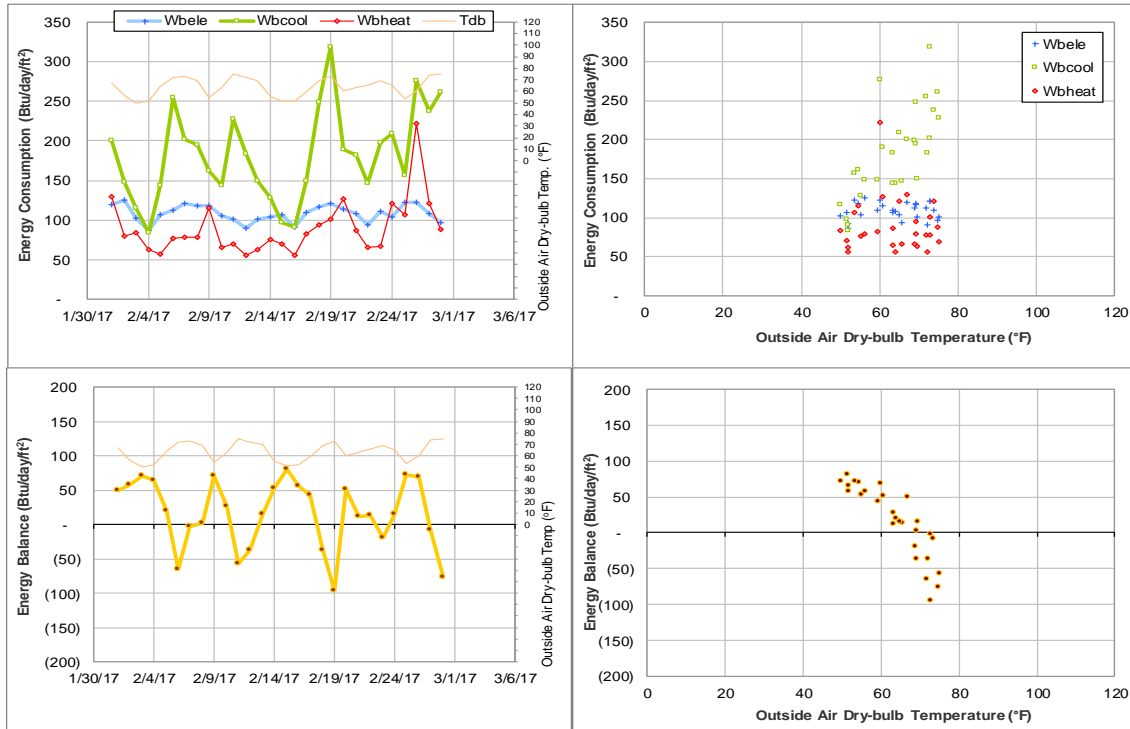


Figure V-25 Reed Arena and Cox-McFerrin Center TAMU BLDG # 1554 Energy Balance Plot during February 2017

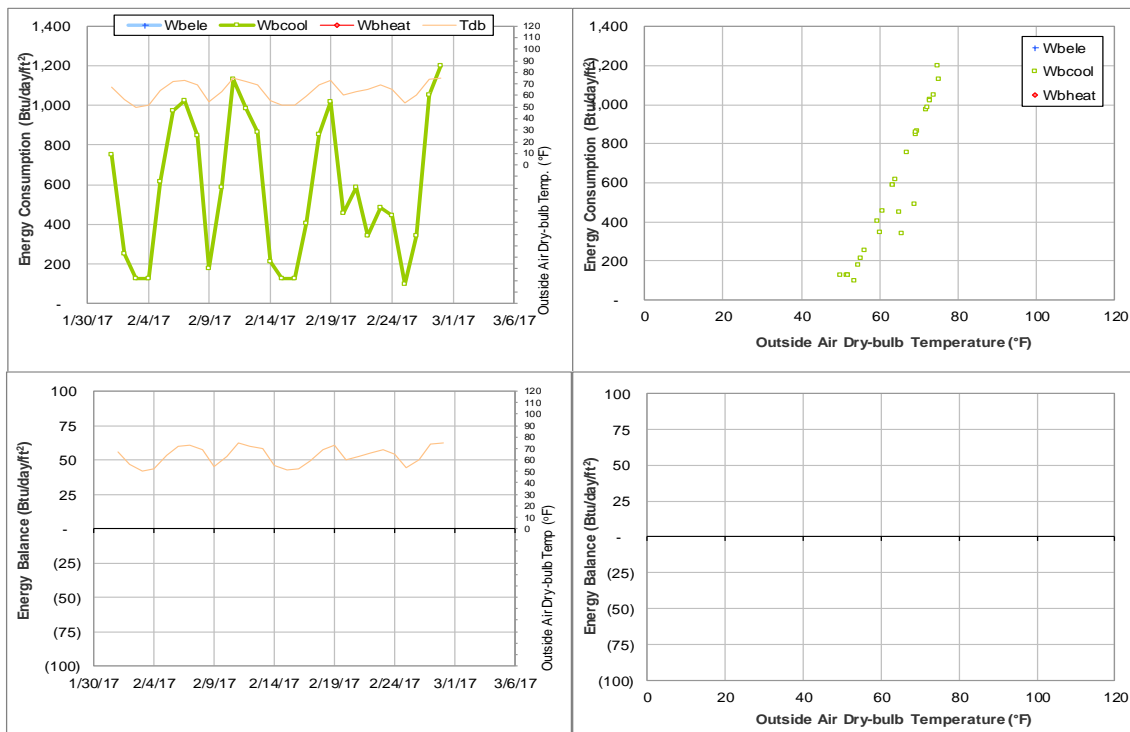


Figure V-26 New TVMDL TAMU BLDG # 1809 Energy Balance Plot during February 2017

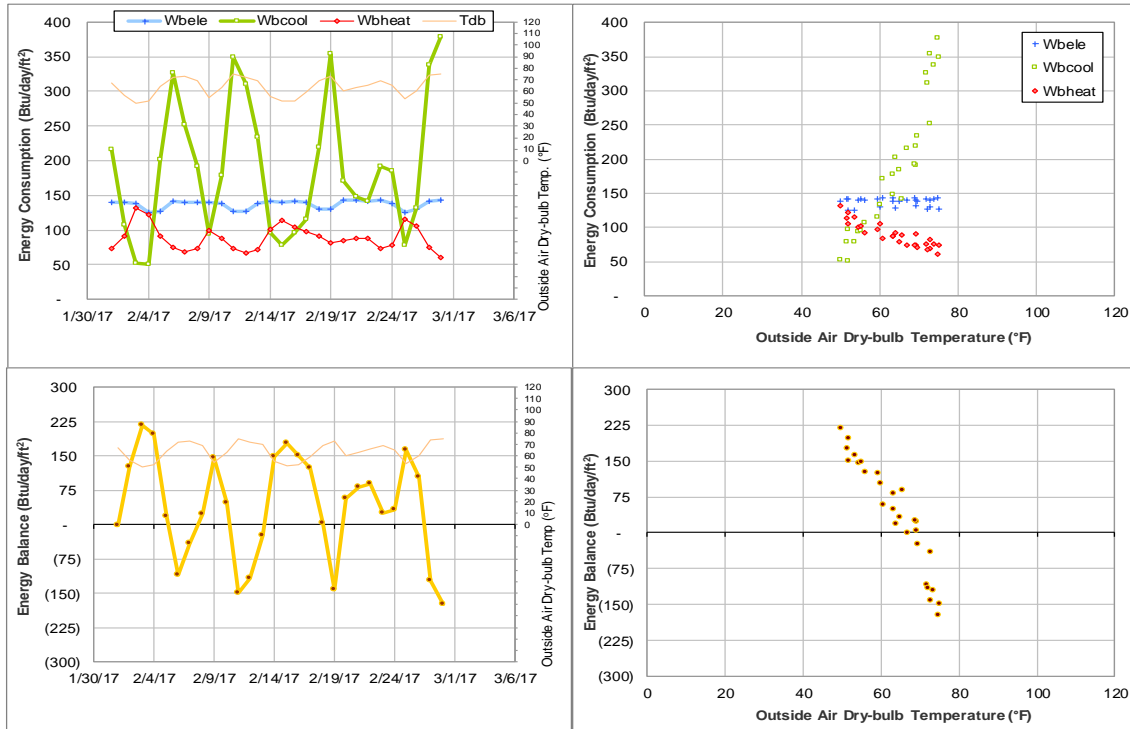


Figure V-27 Veterinary Medicine Building 1, 2, and 3 TAMU BLDG # 1812 Energy Balance Plot during February 2017

VI. Appendix

ENERGY ANALYSIS GROUP



ENERGY SYSTEMS LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION

Project: TAMU: Energy Analysis*

Report: Energy Consumption Data Quality Assurance/Quality Control
Assessment Report for the Month of February 2017

Prepared for:

Utility & Energy Services
Division of Administration
Texas A&M University

Authors: Xiaoli Li, Kimberly Jones, Hongxiang Fu, Alaina Ruffin
Dr. Juan-Carlos Baltazar, and Dr. David Claridge

Date: March 2017

* For information on TAMU project please contact the Team Manager Dr. Juan-Carlos Baltazar